East Tennessee State University

Digital Commons @ East Tennessee State University

Appalachian Student Research Forum & Jay S. Boland Undergraduate Research Symposium

2022 ASRF Schedule

Apr 7th, 9:00 AM - 12:00 PM

How Low Can We Go?: Comparing Long-term Oncologic Outcomes for APR and LAR in Very Low Rectal Cancer

Alva J. Bethurum B.S. James H. Quillen College of Medicine, East Tennessee State University

Alexander T. Hawkins MD, MPH Vanderbilt University Medical Center

Glen C. Balch MD, MBA, FACS Emory University School of Medicine

Scott E. Regenbogen MD, MPH University of Michigan

Jennifer Holder-Murray MD University of Pittsburgh Medical Center

See next page for additional authors

Follow this and additional works at: https://dc.etsu.edu/asrf

Bethurum, Alva J. B.S.; Hawkins, Alexander T. MD, MPH; Balch, Glen C. MD, MBA, FACS; Regenbogen, Scott E. MD, MPH; Holder-Murray, Jennifer MD; Abdel-Misih, Sherif MD; Wise, Paul E. MD; and Muldoon, Roberta MD, "How Low Can We Go?: Comparing Long-term Oncologic Outcomes for APR and LAR in Very Low Rectal Cancer" (2022). *Appalachian Student Research Forum & Jay S. Boland Undergraduate Research Symposium*. 94.

https://dc.etsu.edu/asrf/2022/schedule/94

This Poster Presentation is brought to you for free and open access by the Events at Digital Commons @ East Tennessee State University. It has been accepted for inclusion in Appalachian Student Research Forum & Jay S. Boland Undergraduate Research Symposium by an authorized administrator of Digital Commons @ East Tennessee State University. For more information, please contact digilib@etsu.edu.

Author Names

Alva J. Bethurum B.S.; Alexander T. Hawkins MD, MPH; Glen C. Balch MD, MBA, FACS; Scott E. Regenbogen MD, MPH; Jennifer Holder-Murray MD; Sherif Abdel-Misih MD; Paul E. Wise MD; and Roberta Muldoon MD



Alva J. Bethurum BS¹, Roberta L. Muldoon MD¹, Scott E. Regenbogen MD MPH², Sherif Abdel-Misih MD², Paul E. Wise MD², Jennifer Holder-Murray MD², Glen C. Balch MD MBA², Alexander T. Hawkins MD MPH¹

Background

The decision to pursue APR or LAR for very low rectal cancer is challenging. Determination of approach is generally based on individual surgeon preference.



Objective

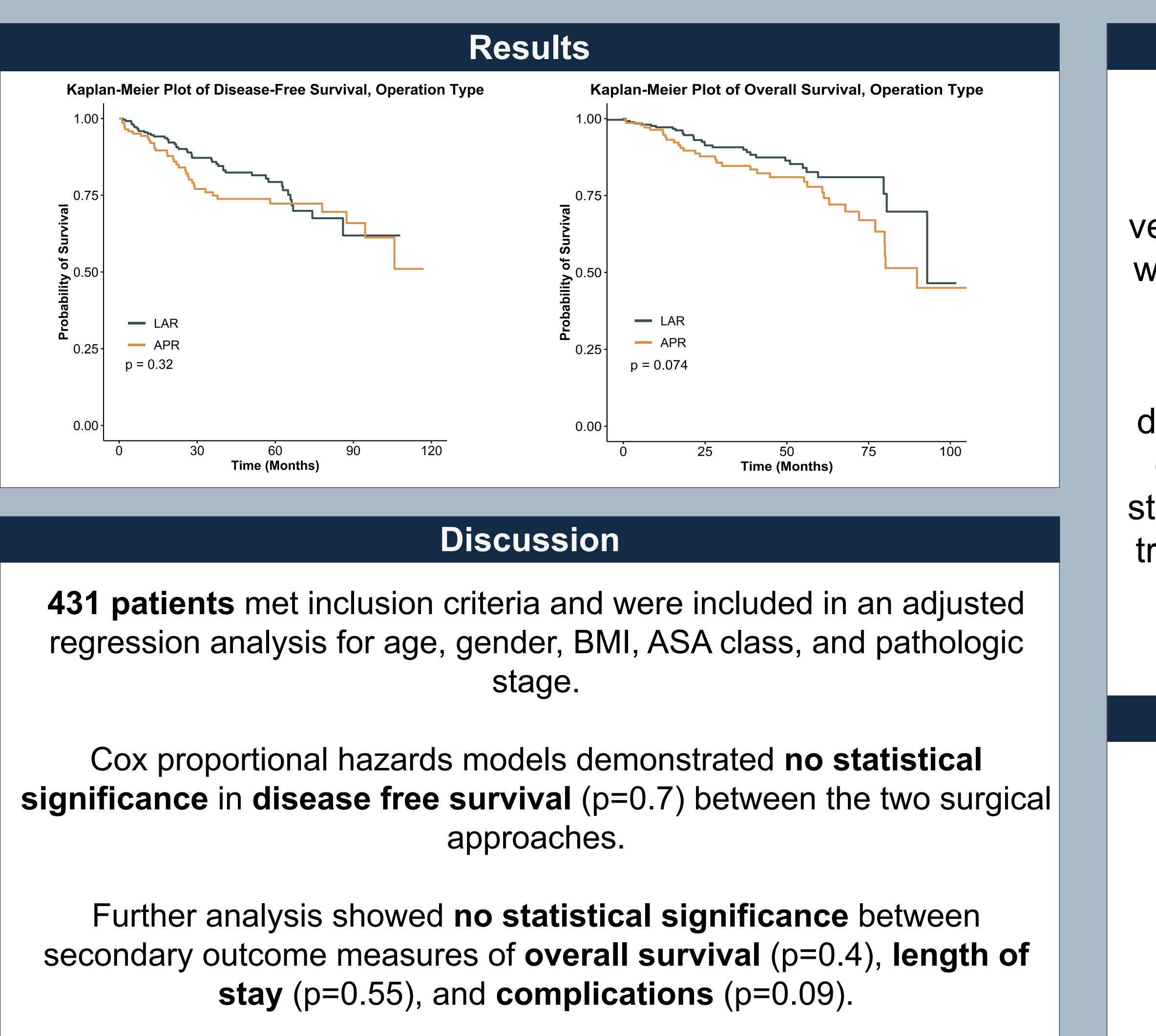
Determine differences in longterm oncologic outcomes between patients undergoing abdominoperineal versus low anterior resection for very low rectal cancer.

Methods

Retrospective analysis of the US Rectal Cancer Collaborative Database identified patients with Stage I-III tumors <5 cm from the anorectal junction with no sphincter involvement who underwent R0 APR or LAR between 2010 and 2016.

How Low Can We Go? Comparing Long Term Oncologic Outcomes for APR and LAR in Very Low Rectal Cancer

¹Vanderbilt University Medical Center, Division of General Surgery, Section of Colon and Rectal Surgery, Nashville, TN ²US Rectal Cancer Consortium



HR and OR for Primary and Secondary Outcomes	
	0.90
Disease-free Survival (HR)	
	1.29 ••••••••••••••••••••••••••••••••••••
Overall Survival (HR)	
	1.53 • • • • • • • • • • • • • • • • • • •
Complications (OR)	*Reference variable: APR
	0 1 2 3



Colorectal Research Center

VANDERBILT VUNIVERSITY MEDICAL CENTER

Conclusion

Overall, similar oncologic outcomes are observed in very low rectal cancer treated with either abdominoperineal or low anterior resection.

Additionally, no significant difference in overall survival, complications, or length of stay was observed in patients treated with either operation.

Implications

With comparable oncologic results, quality of life and economic factors may play a role in the development of a patient's care plan.

To be presented on 3 May 2022, Tampa, FL, ASCRS Annual Meeting, eP478

