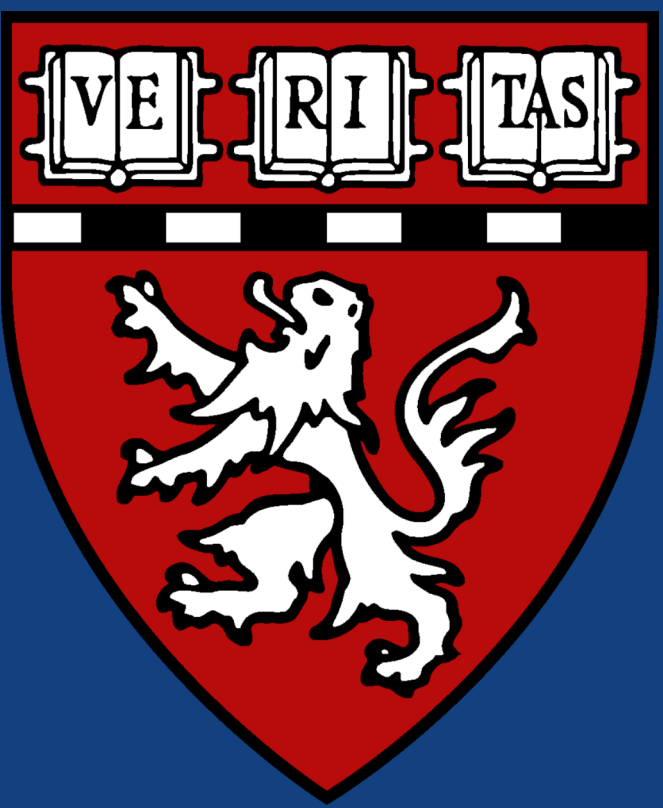


Radiofrequency ablation with Stent vs. Stent-only for Biliary drainage in patients with Malignant Biliary Strictures: A Systemic Review and Meta-Analysis



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Introduction

- Cholangiocarcinoma and pancreatic adenocarcinoma are major causes of malignant biliary strictures.
- Palliative stent placement is the general management strategy for biliary drainage in this patient population.
- Radiofrequency ablation is performed by using Habib catheter.
- Aim: Assess efficacy and safety of RFA with biliary stenting compared to stent alone in patients with malignant biliary strictures

Methods

- Study: Systematic review and meta-analysis.
- Prisma Guidelines.
- Database: PUBMED/MEDLINE, and Embase, web of science, Cochrane library.
- Population: Patients with unresectable malignant biliary strictures.
- Intervention: RFA ablation with stenting Vs. Stenting alone.
- Outcomes:
 - 1 Mean difference in stent patency and overall survival days between the two group.
 - 2 Adverse events between the two groups.

Results

- A total of 13 studies with 1339 patients were included.
- Pooled mean difference in stent patency was 43.50 days.
- Pooled mean difference in overall survival was 90.53 days.
- No difference in the pooled adverse events between the two groups OR 1.07 (95% CI, 0.80-1.34)

Results (cont)

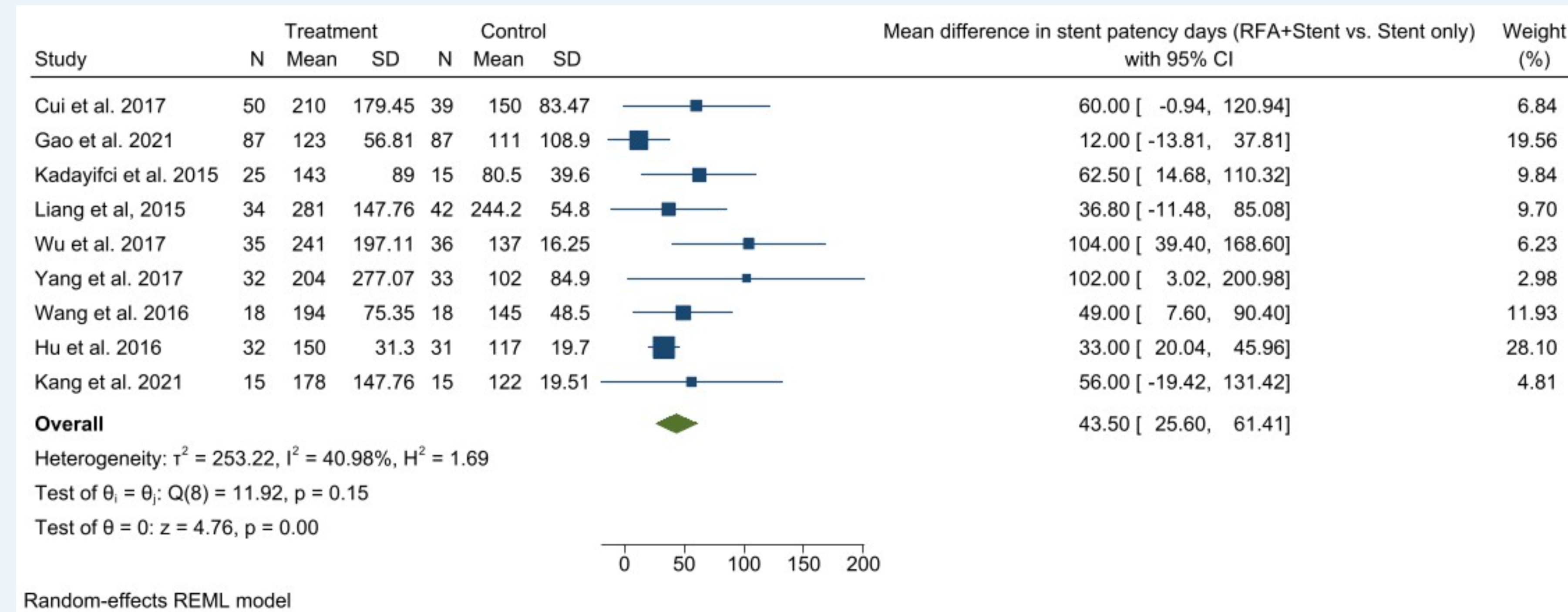


Figure 1. Forest plot of weighted pooled mean difference in stent patency days b/w two groups

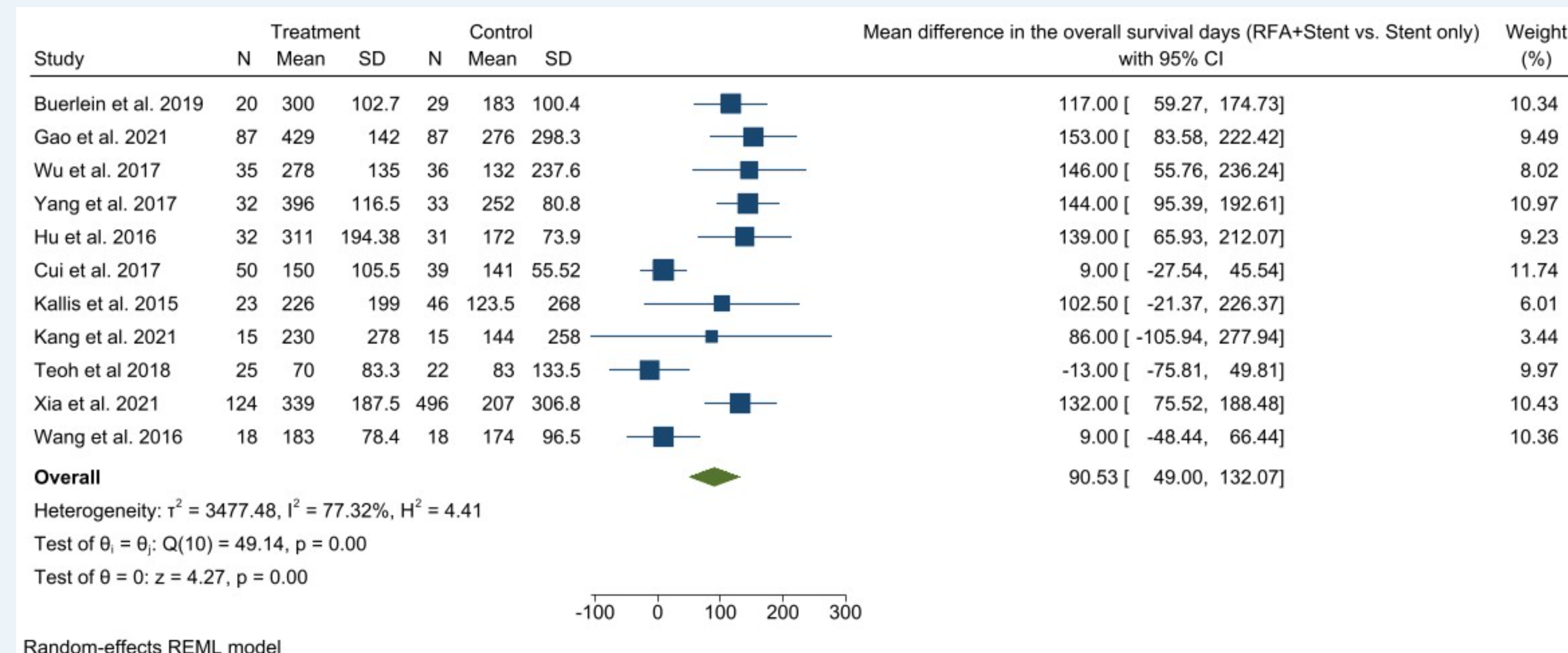
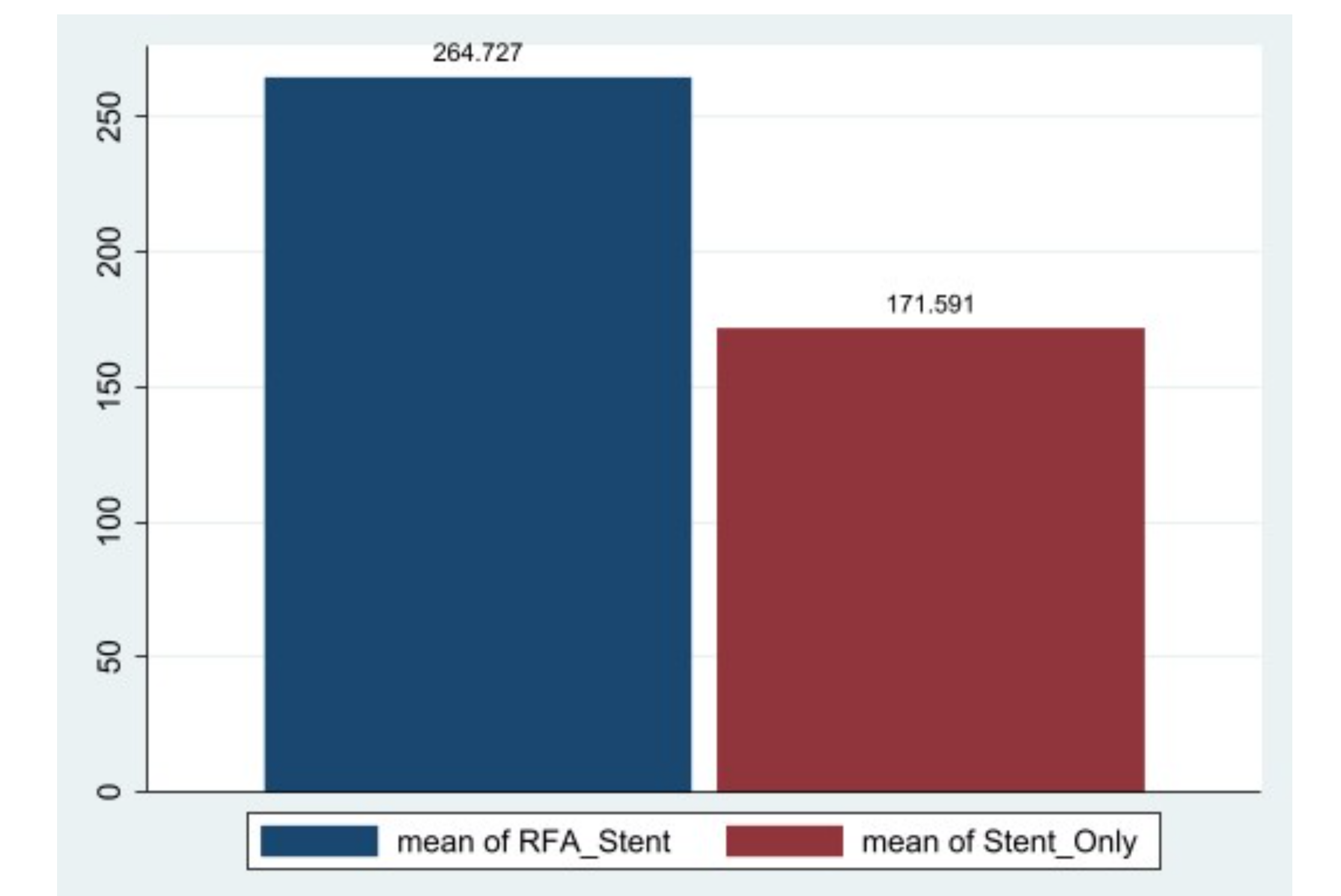
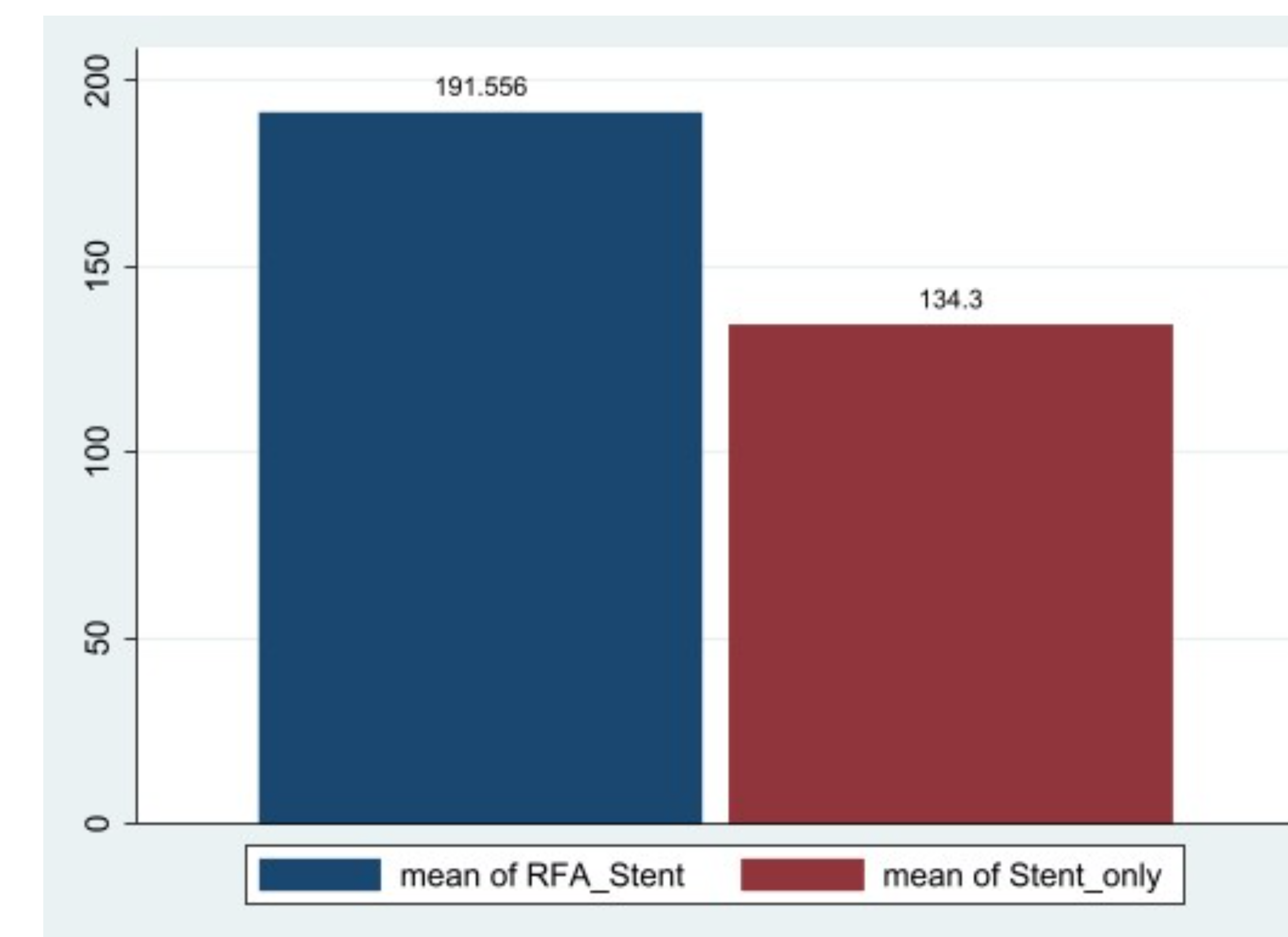


Figure 2. Forest plot of the weighted pooled mean difference in the overall survival days .

Results (cont)



Conclusions

- Radiofrequency ablation along with stenting is safe and is associated with improved stent patency and overall patient survival in malignant biliary strictures.

Presenter's Bio and References

