Is the Open Surgery First or Endovascular First Approach Controversy Still Alive for

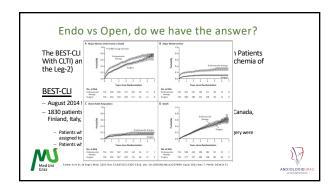
What Percentage Of An Interventionalist's Patients Should be Treated By Open Surgery?

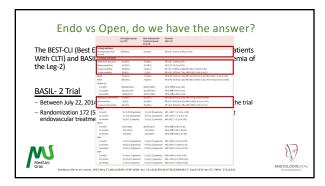
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No Disclosures







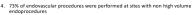
Endo vs Open, do we have the answer?

Best-CLI

Several concerning aspects of the study that must be recognized

- Trial defined technical failure for endovascular therapy as the inability to cross a stenosis
 or occlusion or a residual obstruction of >50% in the superficial femoral artery, popliteal artery, and/or all tibial arteries such that there is no in-line flow
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 The failure rate of Cohort 1 was 15.3%, which is a higher incidence than that reported in contemporary data and similar to the results of the Bypass versus Angioplasty in Severe Ischaemia of the Leg (BASIL) trial conducted 17 years ago
- BEST-CLI trial included patients undergoing infrainguinal revascularization intervention and the BASIL-2 trial included patients who were undergoing infrapopliteal revascularization
 Reintervention in the endowascular group was the major driver of the composite endpoint 42.5% of first reinterventions occurred within 30 days in the endowascular arm of the composite endpoint 42.5% of first reinterventions occurred within 30 days in the endowascular arm of the composite endpoint 42.5% of first reinterventions occurred within 30 days in the endowascular arm of the composite endpoint 42.5% of first reinterventions occurred within 30 days in the endowascular arm of the composite endpoint 42.5% of first reinterventions occurred within 30 days in the endowascular arm of the composite endpoint 42.5% of first reinterventions occurred within 30 days in the endowascular arm of the composite endpoint 42.5% of first reinterventions occurred within 30 days in the endowascular arm of the composite endpoint 42.5% of first reinterventions occurred within 30 days in the endowascular arm of the composite endpoint 42.5% of first reinterventions occurred within 30 days in the endowascular arm of the composite endpoint 42.5% of first reinterventions occurred within 30 days in the endowascular arm of the composite endpoint 42.5% of first reinterventions occurred within 30 days in the endowascular arm of the composite endpoint 42.5% of first reinterventions occurred within 30 days in the endowascular arm of the composite endpoint 42.5% of first reinterventions occurred within 30 days in the endowascular arm of the composite endpoint 42.5% of first reinterventions occurred within 30 days in the endowascular arm of the composite endpoint 42.5% of first reinterventions occurred within 30 days in the endowascular arm of the composite endpoint 42.5% of first reinterventions 42.5% of first reinterventions 42.5% of first reinterventions 42.5% of first reinterventions 42.5% of first reinterventio



Inclusion lasted years (before COVID!!!!) whereas there is a high number of CLTI patient



Endo vs Open, do we have the answer?

RealWorld in Contrast/Medicare Data

- 66,153 patients were included in this study (10,125 autologous grafts; 7867 nonautologous grafts; 48,161 endovascular)
- Compared with BEST-CLI cohort 1, patients in this study were older (mean age, 73.5 ± 5.7 vs 69.9 ± 9.9 years), more likely to be female (38.3% vs 28.5%), and presented with more comorbidities
- Endovascular operators for the study population vs BEST-CLI cohort 1 were less likely to be surgeons (55.9% vs 73.0%) and more likely to be cardiologists (25.5% vs 14.5%)





Endo vs Open, do we have the answer?

RealWorld in Contrast/Medicare Data

- Long-term outcomes:
 - Crude risk of death or MALE in this cohort was higher with surgery

 - 56.6% autologous grafts vs 42.6% BEST-CLI cohort 1 at a median of follow-up 2.7 years
 51.6% nonautologous grafts vs 42.8% BEST-CLI cohort 2 at a median follow-up of 1.6 years)
 - but similar with the endovascular cohort (58.7% Medicare vs 57.4% cohort 1 at 2.7 years; 47.0% Medicare vs 47.7% cohort 2 at 1.6 years)
 - Of those who received endovascular treatment, the risk of incident major intervention was less than half in this cohort compared with the trial cohor (10.0% Medicare vs 23.5% cohort 1 at 2.7 years; 8.6% Medicare vs 25.6% cohort 2 at 1.6 years)



Endo vs Open, do we have the answer?

RealWorld in Contrast/Medicare Data

■ Conclusions: These results suggest that the findings of the BEST-CLI trial may not be applicable to the entirety of the Medicare population of patients with CLTI undergoing revascularization.





Endo vs Open, do we have the answer?

An Endovascular- Versus a Surgery-First Revascularization Strategy for Chronic

- Limb-Threatening Ischemia: A Meta-Analysis of Randomized Controlled Trials

 A total of 3 RCTs with 2,627 patients (1,312 endovascular-first and 1,315 surgery-first) were included in the meta-analysis
- 1,864 patients (70.9%) were men and 347 (13.2%) were older than 80 years.
- Comparing the endovascular-first and surgery-first approaches, there was no significant difference in the overall (HR 0.92 [0.83 to 1.01], p = 0.09) or amputation-free survival (HR 0.98 [0.92 to 1.03], p = 0.42], reintervention (RR 1.214 [0.74 to 2.07], p = 0.41), major amputation, (RR 1.16 [0.87 to 1.54], p = 0.31), or therapeutic crossover (RR 0.92 [0.37 to 2.26], p = 0.85)
- In conclusion, data from available RCTs suggest that there is no difference in clinical outcomes between endovascular-first and surgery-first revascularization strategies for CLTI



· A planned patient-level meta-analysis may provide further insight



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Endo vs Open, do we have the answer? An Endovascular- Versus a Surgery-First Revascularization Strategy for Chronic Limb-Threatening Ischemia: A Meta-Analysis of Randomized Controlled Trials

Controversy Surgical/Endo CLI



Controversy Surgical/Endo CLI

2024 How should we proceed?

- -First of all stop fighting who can do it better
- $-\mbox{\rm It}$ is not specialty which counts it is the patient who counts
- -Patients are different especially CLI patients
- -They need to be evaluated by multidisciplinary vascular team approach what kind of treatment should be applied



