How The Data From BEST-CLI And BASIL-2 Can Be Combined To Produce Conclusions Superior To Those Of Either Trial Alone

Alik Farber MD, MBA Professor and Chairman, Department of Surgery Boston University Chobanian & Avedisian School of Medicine













Stenosis Grading	
	% stenosis
Mild	< 50
Moderate	50-69
Severe	70-99
Occlusion	100











Modified GLASS Score		
	<u>BLB</u>	BASIL 2
Stage 1:	6%	28%
Stage 2:	26%	17%
Stage 3:	68%	55%
		Unpublished Data

Infrapopliteal Subgroup Analysis in BEST-CLI

BEST-CLI patients with

single segment great saphenous vein and

significant infrapopliteal disease who

underwent open tibial bypass or endovascular tibial interventions

...to formulate a more precise comparative study for BASIL-2

















Adjusted Outcomes							
	Surgery (N = 326)		Endovascular (N = 339)				
MALE or All-Cause Death	N (%)	3-Year	N (%)	3-Year	HR (95% CI) [Open vs Endo]	p-value	
MALE	62 (19.0%)	22.9%	109 (32.2%)	35.2%	0.49 (0.35, 0.69)	<.0001	
All-Cause Death Major Amputation or All-Cause	99 (30.37%) 120 (36.8%)	35.48% 43.6%	105 (30.97%) 136 (40.1%)	35.76% 45.3%	1.01 (0.77, 1.33) 0.87 (0.68, 1.13)	0.9432 0.2957	
Major Limb Amputation	37 (11.35%)	13.45%	56 (16.52%)	19.32%	0.59 (0.38, 0.92)	0.0205	
Reintervention (any), Amputation, or All-Cause Death	177 (54.3%)	60.6%	216 (63.7%)	68.7%	0.71 (0.57, 0.88)	<mark>0.0018</mark>	
Major Reintervention	30 (9.20%)	10.93%	63 (18.58%)	20.18%	0.44 (0.27, 0.70)	0.0006	
MACE	119 (36.5%)	43.2%	123 (36.3%)	43.4%	1.05 (0.81, 1.36)	0.6977	





How do we harmonize BEST-CLI and BASIL 2?

• Simply combining ITT groups from both trials and comparing OPEN vs ENDO is methodologically flawed

- \circ Populations are different
- Entry life expectancy different
 Comorbidities are different
 Risk of bypass is inordinately high in BASIL 2
 Entry criteria into trials are different
- \circ Primary and secondary endpoints are different \circ Ascertainment of endpoints different



Future Efforts

- Obtain actual baseline images from BEST-CLI
- Validate GLASS for BEST-CLI
- Compare performance of Modified GLASS to GLASS in BEST-CLI/BASIL • GLASS 2.0?