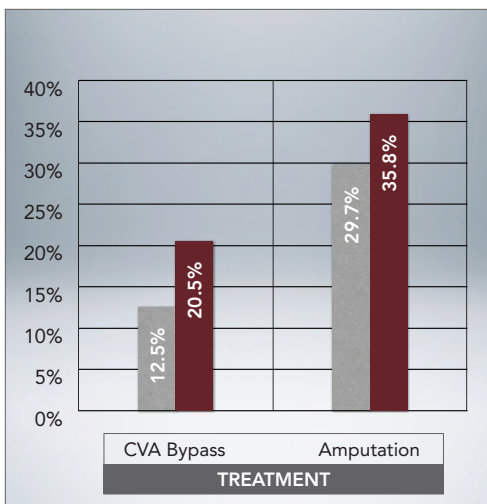


Treatment of Failed or Infected Bypass Grafts with CryoVein vs. Amputation: Perioperative Complications, Reintervention Rates and Mortality

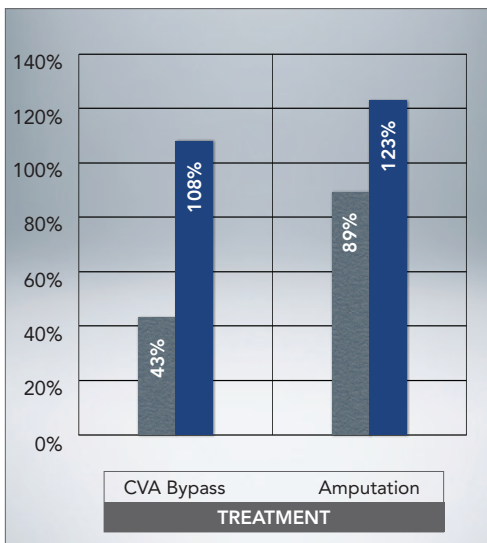


Perioperative Complications



■ LOW ■ HIGH

Readmissions



■ LOW ■ HIGH

A comprehensive search of publications pertaining to outcomes or resources used in peripheral revascularization using cryopreserved veins and/or amputation was conducted for patients with CLI or management of infected peripheral bypass grafts. From 39 studies, data was extracted on treatment pathways, complications, outcomes, reintervention rates, costs and mortality.

Treatment Specific Perioperative Complications:

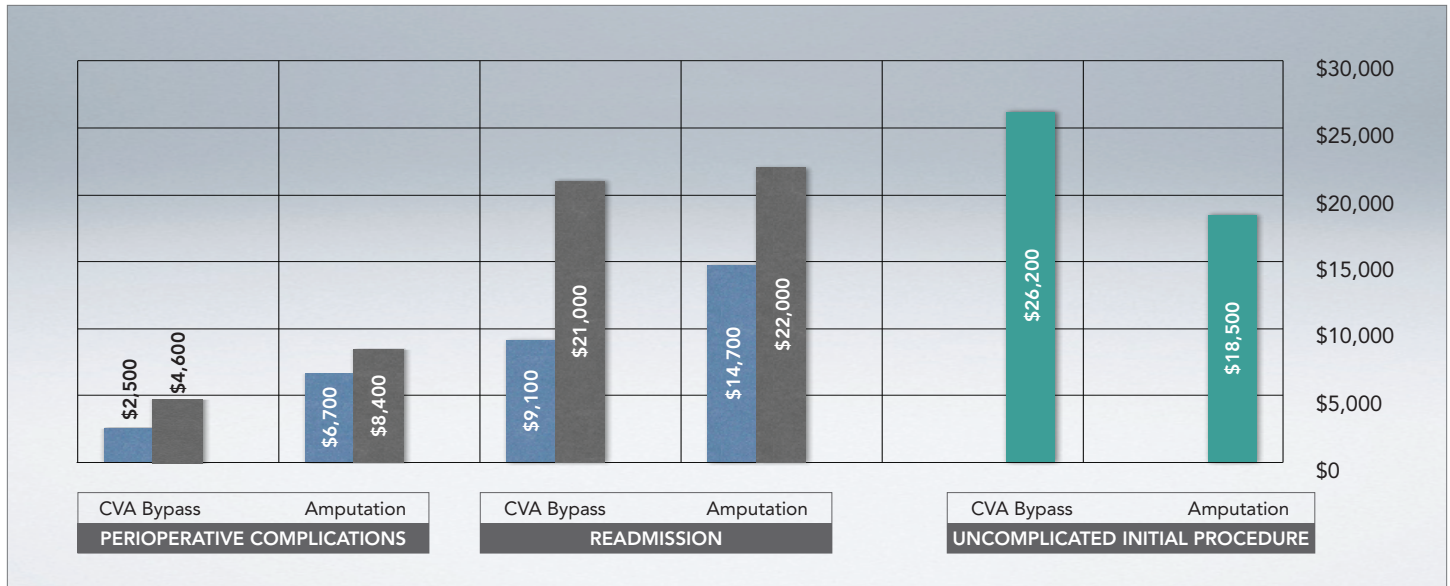
Bypass with CryoVein Allograft (CVA)	Amputation
Early graft occlusion: 0-4%	Skin problems: 6.4%
	Stump infection: 8.4%
	Unhealed wound: 2.4-4.5%

Total rates of readmission for complications and related procedures over 1-2 years range between 89% and 123% for amputation and between 43% and 108% for bypass with CVA.

Reasons for Readmissions:

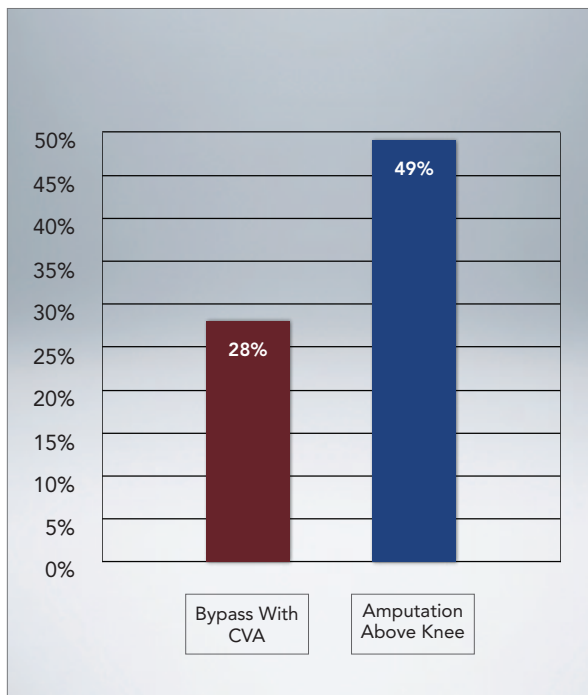
Bypass with CryoVein Allograft (CVA)	Amputation
Amputation: 12.5-34%	Amputation at higher level: 7.5-19%
Angioplasty/atherectomy: 3.9-22.1%	Skin problems: 9.6%
Graft replacement: 7.6-18.2%	Stump infection: 33.6%
Graft thrombolysis (urokinase/tPA): 2.8%	Unhealed wound: 21.6-40.5%
Interposition grafting: 11.8%	Other operative revisions: 4-5%
Surgical revision: 1.5%	Infection of syn. graft above amputated level: 4.6%

Hospital Cost Per Patient: CVA Bypass Vs. Amputation



■ LOW ■ HIGH ■ AVERAGE

Patient Mortality At One Year



Summary

- Total rates of readmission for complications and related procedures over 1-2 years:
 - Bypass with CVA: 43%-108%
 - Amputation: 89%-123%
- Initial hospital costs without complications:
 - Bypass with CVA: \$26,200
 - Amputation: \$18,500
- Perioperative complications add per-patient costs:
 - Bypass with CVA: \$2,500-\$4,600
 - Amputation: \$6,700-\$8,400
- Readmission for complications and additional procedures add per-patient costs:
 - Bypass with CVA: \$9,100-\$21,000
 - Amputation: \$14,700-\$22,000
- Relative total hospital costs per-patient when CVA bypass used instead of amputation:
 - Savings of \$2,300 to an added cost of \$2,900
- Mortality at 1 year:
 - Bypass with CVA: 28%
 - Above-knee amputation: 49%

CryoVein Saphenous Vein Graft		To Order : Call Customer Service 1.888.427.9654
Catalog Number	Tissue	Description
V010	CryoVein Saphenous Vein Graft	Available in lengths >20cm

These facts are referenced in the Naoum, J.J. White Paper: Treatment of Failed or Infected Bypass Grafts with CryoVein® Vs. Amputation: Perioperative Complications, Reintervention Rates and Mortality. © CryoLife, 2009.