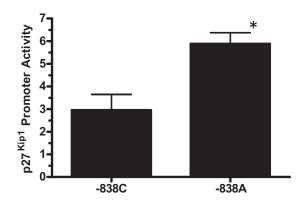
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Supplementary Fig (online only). Effect of the $p27^{kipl}$ -838C>A polymorphism on $p27^{Kipl}$ promoter activity in human venous fibroblasts. Primary cultured adventitial fibroblasts from human saphenous vein (Kenagy et al J Vasc Surgery 2009; 49:1282-8) were transfected by electroporation with the indicated $p27^{Kipl}$ promoter-luciferase constructs used by van Tiel et al (Circulation 2009; 120:669-676) containing the -838A or -838C variant. One day after transfection, cells were changed to serum-free medium for 24 hours and firefly luciferase activity measured. Luciferase activity was normalized to *Renilla* luciferase and expressed as fold of the empty pGL3 shuttle vector. Data shown are mean of four independent experiments (P < .006 by paired t test).

Supplementary Table I (online only). Patient inclusion and exclusion criteria for Seattle cohort

Category	Including	Excluding		
Type of surgical operation	Elective infrainguinal arterial bypass with autogenous vein for claudication or critical limb ischemia due to chronic atherosclerotic occlusive disease. Simultaneous endovascular inflow procedures permitted.	Operations for nonatherosclerotic, or aneurysmal disease. Simultaneous femoral—femoral, or aortobifemoral bypass. Post-op graft thrombosis for technical reasons, within the first 30 days.		
Conduit	Autogenous vein graft >15 cm, including high-risk vein grafts ^a (single or spliced non-GSV segments, vein diameter <3 mm, surgical revisions or corrections performed at index operation).	Composite grafts that include prosthetic conduits. Thrombectomy and/or revision of an existing graft.		
Systemic conditions	Stable malignancy (eg, prostate cancer) ^a	Actively progressive malignancy		
	Diabetes mellitus ^a	Chemotherapy for malignancy (≤3 months)		
	Smoking ^a	Renal failure (dialysis)		
	Hyperlipidemia ^a	Systemic inflammatory disease (eg, lupus)		
	Statin therapy ^a	Invasive infection		
	Any type of antithrombotic therapy ^a	A diagnosed hypercoagulable state		
	Renal impairment (if BUN <60 mg/dL) ^a			
	Previously failed leg bypass ^a			
Patient characteristics Administrative	Age ^a : >18 years; race ^a : all races	Age ^a : <18 years Already enrolled in an investigational drug study. Previously enrolled in this study. Can't follow-up, expected survival <6 months.		

BUN, Blood urea nitrogen; GSV, great saphenous vein.

^aThese conditions are identified as prospective covariables.

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Supplementary Table II (online only). Characteristics of Seattle cohort by $p27^{Kip1}$ -838 genotype

Variable ^a	-838AA	-838CA	-838CC
Patients	6 (11.5)	34 (65.4)	12 (23.1)
Age, years	69.3 ± 12.6	65.4 ± 7.9	63.8 ± 6.8
Male sex	5 (83.3)	31 (91.2)	12 (100.0)
Caucasian race	6 (100)	34 (100)	11 (92)
CLI	6 (100)	19 (56)	7 (58)
Diabetes mellitus	4 (67)	14 (41)	2 (17)
CAD/CVD	1 (17)	13 (38)	4 (33)
Current tobacco	2 (33)	16 (47)	7 (58)
Tissue loss	2 (33)	14 (41)	3 (25)
Infrapopliteal target	2 (33)	8 (24)	0 (0)

 $^{{\}it CAD},$ Coronary artery disease; ${\it CLI},$ critical limb ischemia; ${\it CVD},$ cerebrovascular disease.

Supplementary Table III (online only). Summary of clinical outcomes in Seattle cohort by $p27^{Kip1}$ -838 genotype

Outcome	AA No. (%)	CA No. (%)		Total No. (%)
Loss of primary patency	1 (17)	15 (44)	3 (25)	19 (37)

 $^{^{\}mathrm{a}}\mathrm{Continuous}$ data are shown as mean \pm standard deviation and categoric data as number (%).