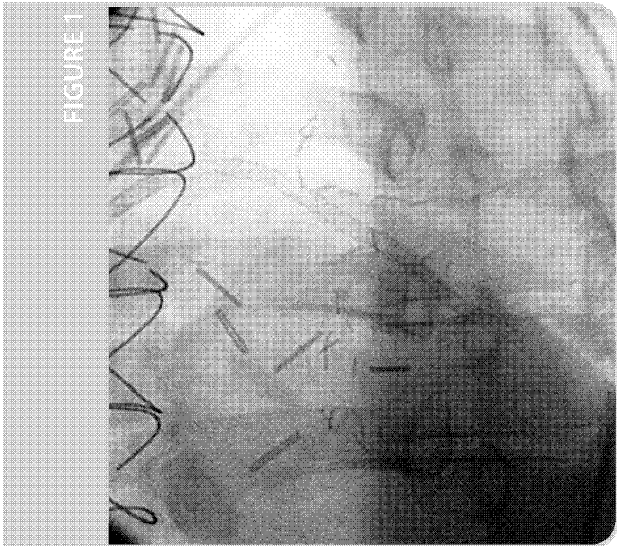


Successful Distal Stent Delivery Past Multiple Previous Stents Made Possible by the GuideLiner Catheter

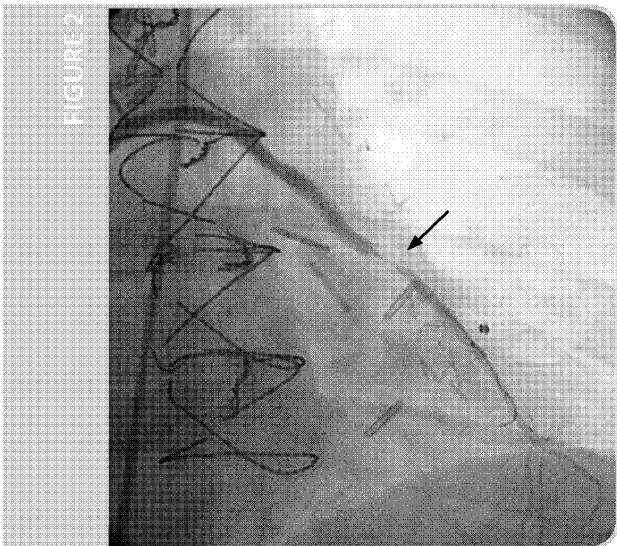


PHYSICIANS

Binita Shah, MD
Chad Kliger, MD
John Coppola, MD
New York University Medical Center, New York

PRESENTATION

The patient is a male with a history of diabetes mellitus, hyperlipidemia, hypertension and coronary artery disease. He has undergone a four vessel coronary artery bypass grafting and has had multiple interventions on a saphenous vein graft to the Ramus, with implantation of bare metal and drug-eluting stents (Figure 1). He returned for treatment after developing disabling angina.



INITIAL FINDINGS

Coronary angiography confirmed a lesion at the distal stent edge, beyond multiple previously placed stents, within the vein graft, extending into the native vessel (Figure 2).

TREATMENT

The distal graft lesion was treated with balloon angioplasty. Multiple attempts made to advance a stent to the distal lesion were unsuccessful, despite the use of a Wiggle™ guidewire for buddy wire support. The procedure was completed with balloon dilation only.

(continued on back)

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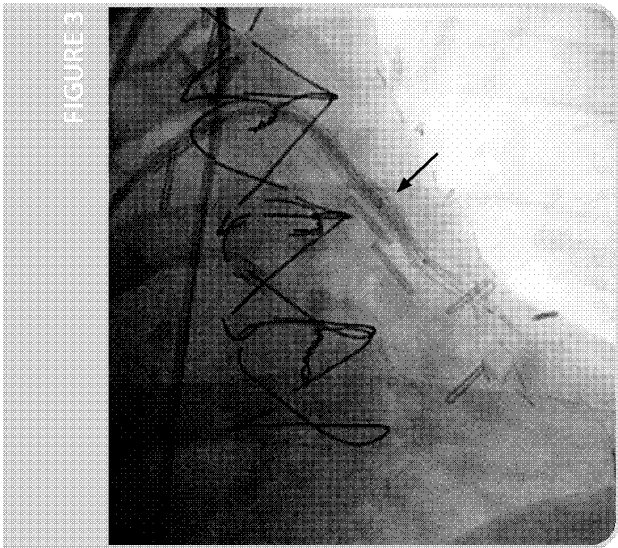


FIGURE 3

SUBSEQUENT TREATMENT OF THE SVG WITH GUIDELINER SUPPORT

Two months after the balloon angioplasty was performed, the patient returned with recurrent angina. The SVG to the Ramus was cannulated with an AL1 guide catheter. The GuideLiner was advanced through the guide catheter and a Prowater™ wire was advanced to the lesion through the GuideLiner. A 2.5mm x 12mm Sprinter® balloon was placed at the distal lesion and inflated. With the distal anchor balloon inflated, the GuideLiner was advanced into the vein graft through the prior areas of stented graft that had given so much difficulty passing on the previous procedures (Figure 3). With the GuideLiner in place, a Promus® stent passed easily to the distal lesion and was successfully deployed at 18atm. A good angiographic result and positive patient outcome was achieved (Figure 4).

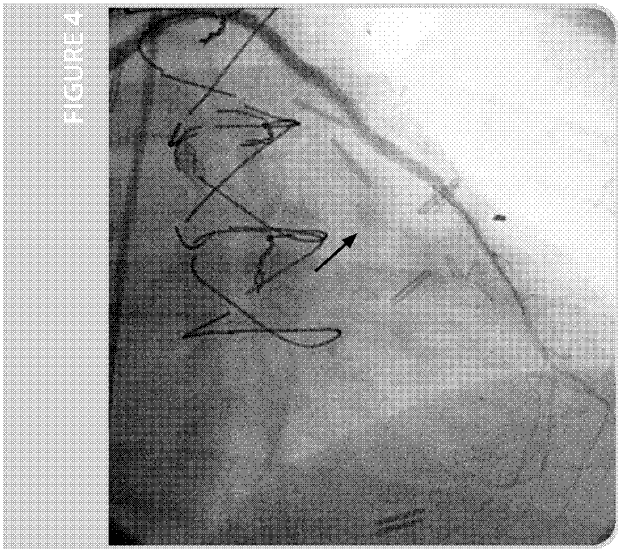


FIGURE 4

SUMMARY

By allowing the delivery of a stent through a saphenous vein graft with multiple previous stent implantations, the GuideLiner made possible the treatment of this difficult and persistent distal lesion. The GuideLiner enabled deep seating within a vessel, even past previous stents and atherosclerotic plaque.

GuideLiner catheters are intended to be used in conjunction with guide catheters to access discrete regions of the coronary and/or peripheral vasculature, and to facilitate placement and exchange of guidewires and other interventional devices. Please see the Instructions for Use for a complete listing of the indications, contraindications, warnings and precautions.

CAUTION: Federal law (U.S.A.) restricts this device to sale by or on the order of a physician.

GuideLiner is a registered trademark of Vascular Solutions, Inc. All other trademarks and registered trademarks are property of their respective owners.

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Vascular Solutions, Inc.
6464 Sycamore Court North
Minneapolis, Minnesota 55369 USA
Customer Service:
United States: 888.240.6001
International: (001) 763.656.4298
customerservice@vasc.com
www.vasc.com

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