



FIGURE 1

Use of the GuideLiner Catheter to Reduce Contrast in Patients with Renal Insufficiency

PHYSICIAN

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PRESENTATION

Male patient with a history of hypertension presented with recent acute pulmonary edema, angina, ischemic cardiomyopathy (ICM), chronic kidney disease (CKD stage III) and a glomerular filtration rate (GFR) of 45.1.

INITIAL FINDINGS

SPECT assessment was abnormal, revealing inferior wall ischemia and an ejection fraction (EF) of 25%. Angiographic findings revealed a 90% lesion mid-PDA (Figure 1).

TREATMENT

A 6F Ikari Left 3.5 guide catheter was inserted via right radial access. Because the patient had Stage III CKD, a 6F GuidLiner was then inserted for super-selective injections to reduce contrast (Figure 2). Direct stenting of the PDA lesion was performed with a 2.5 X 15mm XIENCE Xpedition® everolimus eluting coronary stent over a 190cm Hi-Torque Balance Middleweight® guidewire (Figures 3 and 4) and the stent was post dilated with a 2.5 X 8mm NC Quantum Apex™ PTCA dilation balloon (Figure 5).

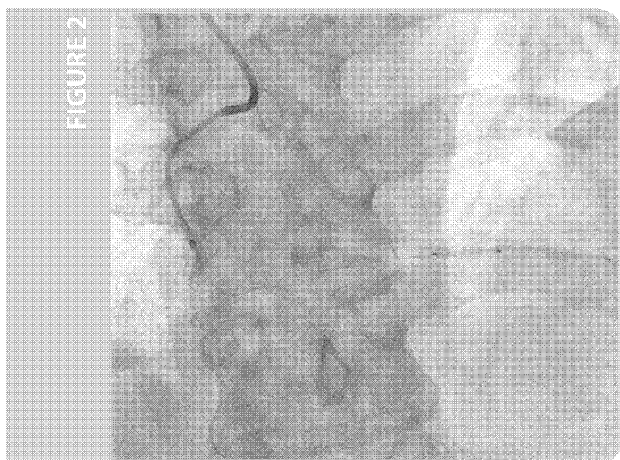


FIGURE 2

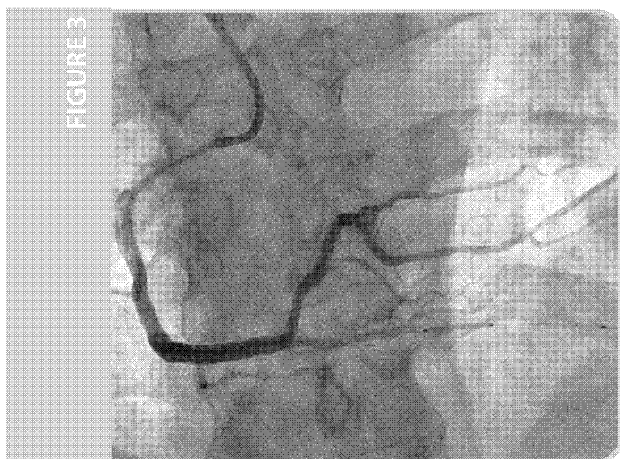


FIGURE 3

(continued on back)

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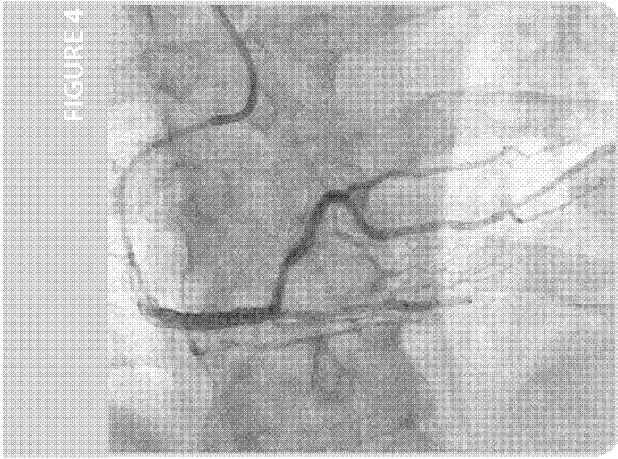


FIGURE 4

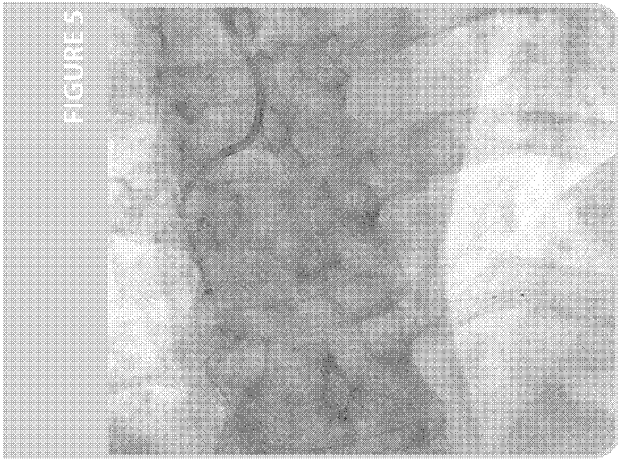


FIGURE 5

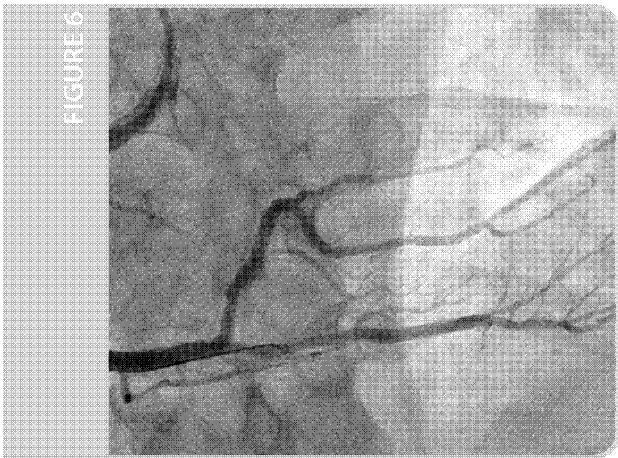


FIGURE 6

CONCLUSION AND POST PROCEDURE

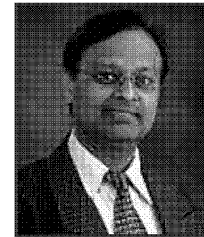
The mid-PDA stenosis was reduced from 90% to 0% post-stent deployment (Figure 6). Contrast usage was limited to 60cc for the entire procedure, including coronary angiography and stent placement, by using super-selective injections to the target location and minimizing contrast runoff into ipsilateral coronary vessels.

SUMMARY

PCI of the PDA was successfully performed in a patient with CKD Stage III using the GuideLiner for super-selective injections to minimize contrast use. Both diagnostic and interventional portions of this procedure were completed using a total contrast amount of 60cc.

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As Medical Director, President and Founder of Owensboro Heart and Vascular, Kishor Vora, MD, FSCAI, FACC is board certified in Internal Medicine and Cardiovascular Disease. Having received his MD from Grant Medical College at the University of Bombay (Bombay, India), he specializes in cardiology, cardiovascular disease, internal medicine, and interventional cardiology. Dr. Vora is a fellow of the Society for Cardiac Angiography and Interventions as well as the American College of Cardiology.



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.

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