

## Complex primary PCI for STEMI facilitated by the GuideLiner<sup>®</sup> catheter

### physician

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### Location

Roudebush VA Medical Center, Indianapolis, Indiana, USA

### presentation

A 58 year old gentleman with hypertension presented to our emergency room with inferior STEMI. He was taken emergently to the cardiac catheterization laboratory for coronary angiography and primary PCI.

### initial Findings

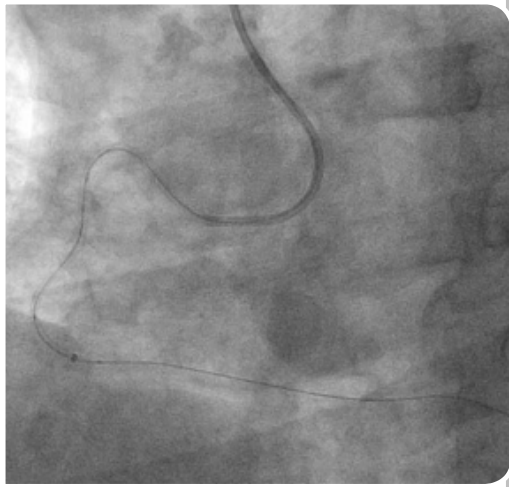
Coronary angiography showed a tortuous right coronary artery (RCA) with an occlusive thrombus in the mid to distal coronary segment (Figure 1). The left coronary system was unremarkable.

### treatment

The ostium of the RCA was engaged using a 6F ART 3.5 guide catheter. A BMW™ guidewire would not advance past the proximal RCA segment. A polymer covered CHOICE® PT floppy guidewire with balloon support crossed the thrombotic lesion into the distal RCA (Figure 2). A 3 x 15mm Trek™ balloon was passed with difficulty into the lesion and angioplasty performed. Attempts to pass a 4 x 23mm Xience V® drug eluting stent were unsuccessful and the stent would not pass through the proximal RCA.

A 6F GuideLiner was then used, the tip of which was positioned in the distal RCA using the 3mm Trek as an anchoring balloon (Figures 3 & 4). The 4 x 23mm Xience V stent was then delivered to the lesion site, the GuideLiner catheter withdrawn, and the stent deployed (Figure 5). An excellent angiographic result was obtained (Figure 6).

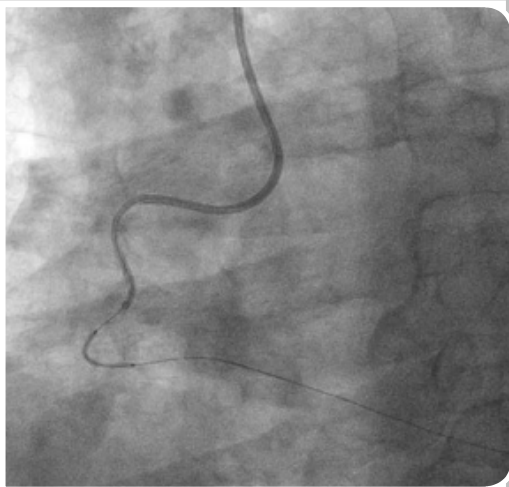
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## Complex primary PCI for STEMI elevation myocardial infarction facilitated by the GuideLiner catheter

### Conclusion & post procedure

The GuideLiner catheter is a new tool which facilitates complex primary PCI in STEMI patients. It saves critical time in this patient subset. It makes the difference between success and failure and converts an impossible case to a possible one.



### Summary

The GuideLiner catheter allowed the delivery of a large drug eluting stent through a very tortuous artery to the lesion site. Importantly, the pressure from the tip of the GuideLiner catheter showed that flow was maintained normally with no ventriculization or damping, and angiographically it was noted that the GuideLiner conformed to the vessel tortuosity and did not kink the vessel, which would have occurred if stiff wires were used to facilitate delivery of the stent.



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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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