“The principle of angioplasty with modulated dilatation potentially results in a reduction of severe flow limiting dissections. Early experience with this new angioplasty technique is promising and warrants comparative studies with conventional balloon angioplasty in the future.”

Professor Thomas Zeller
EC REP

MPS Medical Product Service GmbH
Borngasse 20
D-35619 Braunfels, Germany
Tel: +49 6442 962073

Distributed by:
TriReme Medical Inc.
7060 Koll Center Parkway, Suite 300
Pleasanton
California 94566 USA
Tel: +1 925 931 1300
www.trirememedical.com

Developed by:
Quattro Vascular Pte Ltd
ROC REG 201006397R
Patient Presentation

- 75 Year old Male
- History of Hypertension and Aortic Insufficiency
- No Diabetes
- No History of Tobacco Use
- Intermittent Claudication (Rutherford 2)
- RVD of 3.0mm
- Lesion Length of 150mm
- Mild calcification
- 70% Diameter Stenosis with multiple lesions in ATA (shown below in Figures 1A and 1B)

(Arrows show location of pre-treatment lesions)

Percutaneous Intervention (PI):
- Intention to treat by angioplasty w/provisional stenting
- Clopidogrel, Aspirin, and Heparin were administered.
- Ipsilateral / Antegrade access was achieved
- The ATA was pre-dilated with a 2mm balloon catheter 3 times for 10 sec each moving distal to proximal
- Obvious areas of >50% stenosis were still visible (Figures 2A, 2B and 2C)

Baseline

Figure 1A: Pre-Treatment Lesions Mid AT
Figure 1B: Pre-Treatment Lesions Distal AT

Before Chocolate™ Treatment

Figure 2 A-C: Areas with residual stenosis visible after inflation with a small diameter balloon
• A 3.0x80 mm Chocolate™ Balloon Catheter was advanced into the distal ATA and inflated for 2 min at 10 atm (shown below in Figure 3A)
• Chocolate™ Balloon was moved back 80mm proximal for a second inflation for 2 min at 10 atm (Figure 3B)
• PI procedure was complete in 34 minutes

Outcomes:
• Post Chocolate™ inflation <50% DS was achieved (Figure 4A and 4B)
• No flow limiting dissection
• No additional treatment was required after Chocolate™ Balloon Inflation

Available Follow-Up:
• Patency confirmed on 30 day DUS
• No Adverse Events at 3 Months

Chocolate™ Treatment

Final Results

Figure 3A: Chocolate™ Inflation #1  (Distal AT)  
Figure 3B: Chocolate™ Inflation #2  (Mid AT)  
Figure 4A: Mid AT Post Chocolate™ Inflation  
Figure 4B: Distal AT Post Chocolate™ Inflation