



ELUVIA™ DRUG-ELUTING VASCULAR STENT SYSTEM

CASE 3 | TREATING A COMPLEX DIABETIC PATIENT USING ELUVIA™ DRUG-ELUTING STENTS

PRESENTED BY:

RAHUL PATEL, M.D.

- Assistant Professor of Radiology and Surgery
- Vascular Interventional Radiology Mount Sinai

HISTORY

DIAGNOSTIC FINDINGS

TREATMENT APPROACH

CALCIUM MODIFICATION STRATEGY

RESULTS OF CALCIUM MODIFICATION

DEFINITIVE TREATMENT STRATEGY

COMPLETION ANGIOGRAPHY RESULTS

TREATMENT RESULTS & OUTCOMES



DE Clinical Spotlight Series

CASE 3 | TREATING A COMPLEX DIABETIC PATIENT USING ELUVIA™ DRUG -ELUTING STENTS

HISTORY

PATIENT DEMOGRAPHICS

88-year-old patient

PRESENTING SYMPTOMS

Nonhealing ulcer on left foot

Deep wound on lateral aspect of foot

Ischemic rest pain and short distance claudication

MEDICAL HISTORY

Type 2 diabetes on insulin, Coronary artery disease (CAD), hyperlipidemia (HLD), hypertension (HTN), atrial fibrillation on apixaban, peripheral artery disease (PAD), left carotid stenosis, chronic kidney disease (CKD) stage 3b, chronic anemia, and basal cell carcinoma of the foot status post radiation therapy

CLINICAL INTERPRETATION

Limb-threatening ischemia requiring revascularization



HISTORY

DIAGNOSTIC FINDINGS

TREATMENT APPROACH

CALCIUM MODIFICATION STRATEGY

RESULTS OF CALCIUM MODIFICATION

DEFINITIVE TREATMENT STRATEGY

COMPLETION ANGIOGRAPHY RESULTS

TREATMENT RESULTS & OUTCOMES



DE Clinical Spotlight Series

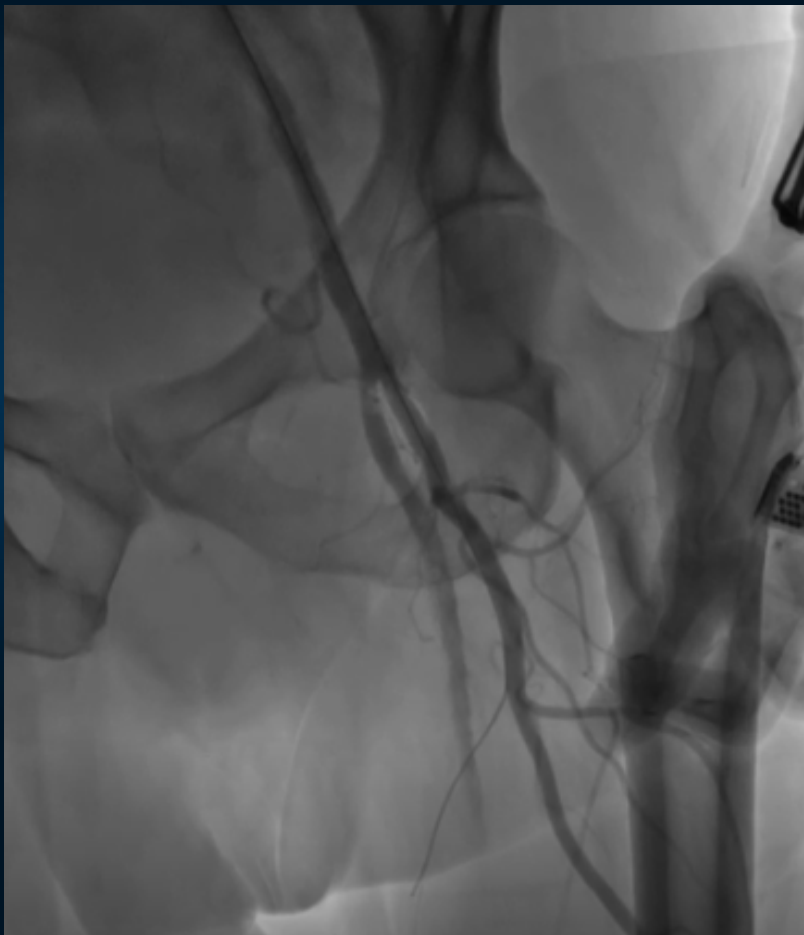
CASE 3 | TREATING A COMPLEX DIABETIC PATIENT USING ELUVIA™ DRUG -ELUTING STENTS

DIAGNOSTIC FINDINGS

FEMORAL-POPLITEAL SEGMENT

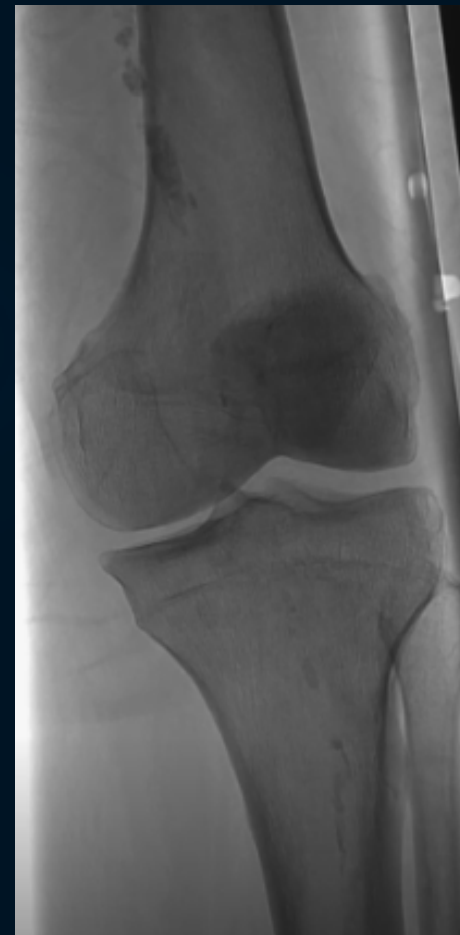
Severe calcification present

Likely chronic total occlusion (CTO) segments



OVERALL ASSESSMENT

Flow-limiting, heavily calcified vascular disease



HISTORY

DIAGNOSTIC FINDINGS

TREATMENT APPROACH

CALCIUM MODIFICATION STRATEGY

RESULTS OF CALCIUM MODIFICATION

DEFINITIVE TREATMENT STRATEGY

COMPLETION ANGIOGRAPHY RESULTS

TREATMENT RESULTS & OUTCOMES

TREATMENT APPROACH

LESION CHARACTERISTICS

- Dense, concentric calcification
- Long, complex lesion requiring crossing

KEY PROCEDURAL RISKS

- Risk of inadequate luminal gain due to calcification
- Risk of vessel injury with high-pressure ballooning

ANATOMIC CHALLENGES

- Extensive calcification throughout treated segment
- Difficult lesion crossing

TREATMENT STRATEGY GOALS

- Improve vessel compliance rather than completely eliminate calcium
- Enable effective delivery of definitive therapy, including drug-eluting stent (DES) or drug-coated balloon (DCB) treatment
- Achieve adequate luminal gain with lower-pressure ballooning

HISTORY

DIAGNOSTIC FINDINGS

TREATMENT APPROACH

CALCIUM MODIFICATION STRATEGY

RESULTS OF CALCIUM MODIFICATION

DEFINITIVE TREATMENT STRATEGY

COMPLETION ANGIOGRAPHY RESULTS

TREATMENT RESULTS & OUTCOMES



TREATMENT APPROACH | CALCIUM MODIFICATION STRATEGY

SELECTED TECHNOLOGY

SEISMIQ™ Intravascular Lithotripsy (IVL) System

RATIONALE FOR SEISMIQ™ IVL SELECTION

Avoid the need for high-pressure ballooning

Improve vessel compliance in calcified lesions

Support delivery of definitive therapy

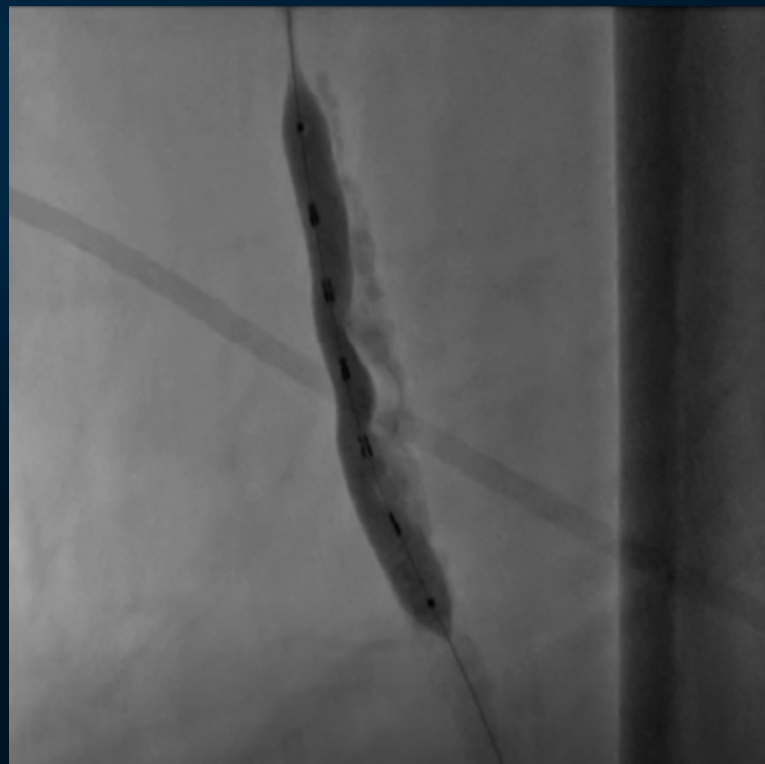
IVL TREATMENT TECHNIQUE

Single balloon used with multiple pulse deliveries

Balloon repositioned incrementally to target calcified segments

Selective emitter activation used to focus energy on dense calcification

Low-pressure inflation of approximately 4–6 ATM



HISTORY

DIAGNOSTIC FINDINGS

TREATMENT APPROACH

CALCIUM MODIFICATION STRATEGY

RESULTS OF CALCIUM MODIFICATION

DEFINITIVE TREATMENT STRATEGY

COMPLETION ANGIOGRAPHY RESULTS

TREATMENT RESULTS & OUTCOMES



TREATMENT APPROACH | RESULTS OF CALCIUM MODIFICATION

Improved vessel compliance observed on intravascular ultrasound (IVUS)

Luminal gain achieved without aggressive dilation



HISTORY

DIAGNOSTIC FINDINGS

TREATMENT APPROACH

CALCIUM MODIFICATION STRATEGY

RESULTS OF CALCIUM MODIFICATION

DEFINITIVE TREATMENT STRATEGY

COMPLETION ANGIOGRAPHY RESULTS

TREATMENT RESULTS & OUTCOMES



**Boston
Scientific**
Advancing science for life™



DE Clinical Spotlight Series

CASE 3 | TREATING A COMPLEX DIABETIC PATIENT USING ELUVIA™ DRUG -ELUTING STENTS

TREATMENT APPROACH | DEFINITIVE TREATMENT STRATEGY

POST PREPARATION ASSESSMENT

Adequate luminal gain after intravascular lithotripsy (IVL)

THERAPEUTIC GOAL

Support durable vessel patency and improve perfusion

DEVICE STRATEGY

Placement of the ELUVIA™ Drug-Eluting Vascular Stent System

HISTORY

DIAGNOSTIC FINDINGS

TREATMENT APPROACH

CALCIUM MODIFICATION STRATEGY

RESULTS OF CALCIUM MODIFICATION

DEFINITIVE TREATMENT STRATEGY

COMPLETION ANGIOGRAPHY RESULTS

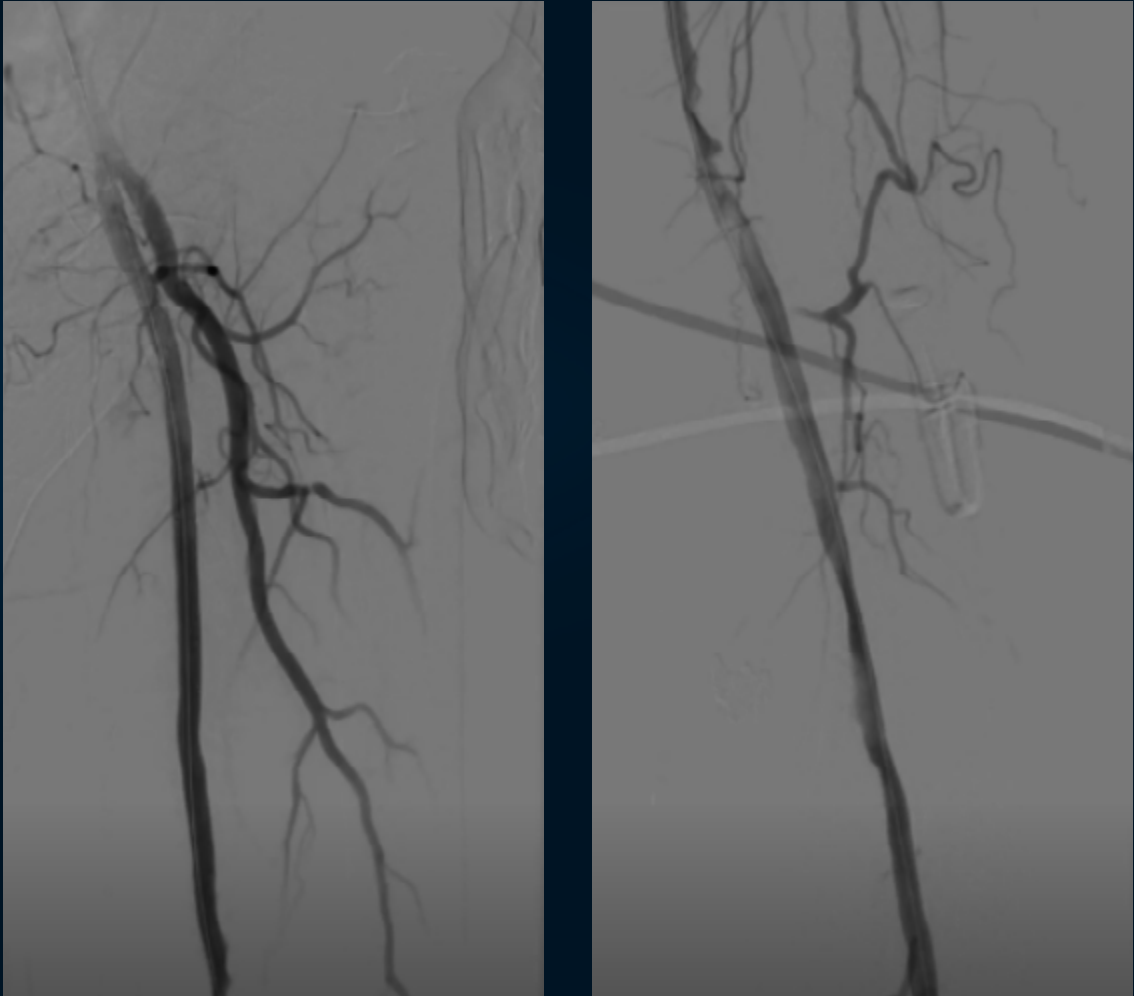
TREATMENT RESULTS & OUTCOMES

Images courtesy of Rahul Patel, M.D.
©2026 Boston Scientific Corporation or its affiliates. All rights reserved. All trademarks are the property of their respective owners. PI-2526517-AA

TREATMENT APPROACH | COMPLETION ANGIOGRAPHY RESULTS

Improved flow through the treated vessel

No flow-limiting residual lesions observed



HISTORY

DIAGNOSTIC FINDINGS

TREATMENT APPROACH

CALCIUM MODIFICATION STRATEGY

RESULTS OF CALCIUM MODIFICATION

DEFINITIVE TREATMENT STRATEGY

COMPLETION ANGIOGRAPHY RESULTS

TREATMENT RESULTS & OUTCOMES



TREATMENT RESULTS & OUTCOMES

RUNOFF ASSESSMENT

Good distal flow without significant collateral reliance

TECHNICAL OUTCOME

Successful revascularization with palpable pulse at completion

CLINICAL SIGNIFICANCE

Use of intravascular lithotripsy (IVL) for vessel preparation, followed by drug-eluting stent therapy, supported intervention in heavily calcified disease

 **LISTEN TO DR. PATEL
HIGHLIGHT THE FULL CASE HERE**

Results from a single case. Individual outcomes may vary.

INTEGRATED TREATMENT STRATEGY

SEISMIQ™ Intravascular Lithotripsy (IVL) System:

- Supported targeted vessel preparation
- Intravascular ultrasound (IVUS) was used to guide the intervention and assess procedural results

ELUVIA™ Drug-Eluting Vascular Stent System:

- Selected as definitive therapy following vessel preparation
- Supported drug-eluting stent treatment
- Chosen for its proven performance in patients with complex comorbid conditions¹

PATIENT & CLINICAL OUTCOME

Successful revascularization

Improved perfusion with palpable pulse

Wound healing observed after the procedure

Immediate relief of rest pain post-procedure

HISTORY

DIAGNOSTIC FINDINGS

TREATMENT APPROACH

CALCIUM MODIFICATION STRATEGY

RESULTS OF CALCIUM MODIFICATION

DEFINITIVE TREATMENT STRATEGY

COMPLETION ANGIOGRAPHY RESULTS

TREATMENT RESULTS & OUTCOMES



HISTORY
DIAGNOSTIC FINDINGS
TREATMENT APPROACH
CALCIUM MODIFICATION STRATEGY
RESULTS OF CALCIUM MODIFICATION
DEFINITIVE TREATMENT STRATEGY
COMPLETION ANGIOGRAPHY RESULTS
TREATMENT RESULTS & OUTCOMES



ELUVIA™ Drug-Eluting Vascular Stent System
Indications, Safety, and Warnings
<http://bostonscientific.com/eluvia-indications>



SEISMIQ™ Intravascular Lithotripsy System
Indications, Safety, and Warnings
<https://www.bostonscientific.com/seismiq-indications>

**Boston
Scientific**
Advancing science for life™

**Interventional Cardiology &
Vascular Therapies**
300 Boston Scientific Way
Marlborough, MA 01752-1234
www.bostonscientific.com

*To order product or for more information
contact customer service at 1.888.272.1001.*

© 2026 Boston Scientific Corporation
or its affiliates. All rights reserved.
PI-2526517-AA