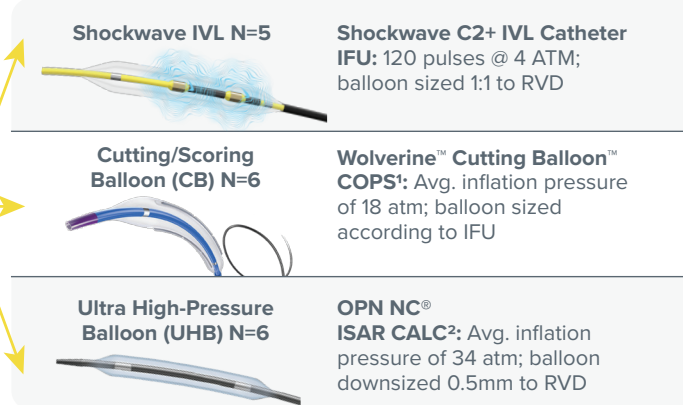
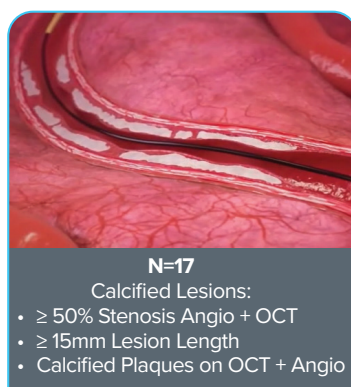
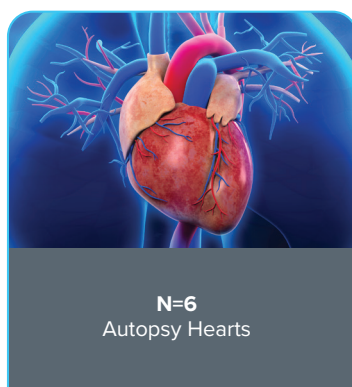


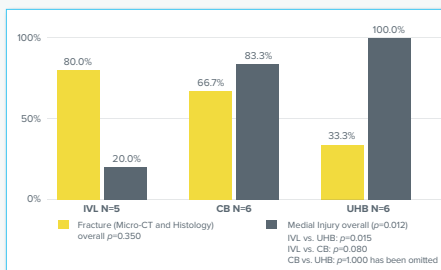
IMPACT OF SHOCKWAVE IVL, WOLVERINE™ AND OPN NC® IN SEVERELY CALCIFIED CORONARY LESIONS

Cadaveric Specimens Used to Compare Strategies

Sekimoto, T et al. Comparison of Vascular Injury From Intravascular Lithotripsy, Cutting, or Ultra-High-Pressure Balloons During Coronary Calcium Modification. J Am Coll Cardiol Interv. 2025 Sep, 18 (17) 2093–2104. Cadaveric study. May not be indicative of actual clinical use.

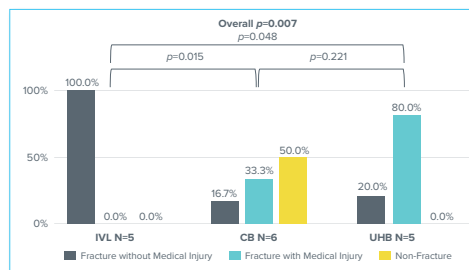


Comparison of Calcium Fracture and Injury by Lesion³



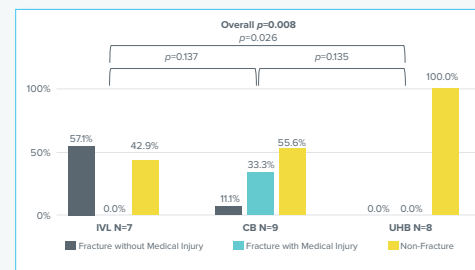
- Calcium fractures were most frequently observed with IVL
- Medial injury was significantly less frequent with IVL compared to CB and UHB
- Medial injury occurred in 100% of lesions treated with UHB

Calcium Fracture and Injury Within Calcium Arcs $\geq 180^\circ$ by Histological Section³



- IVL produced calcium fracture in 100% of histologic sections without medial injury
- CB produced calcium fracture in 50% of histologic sections and were mostly associated with medial injury
- Majority of calcium fractures produced by UHB were associated with medial injury

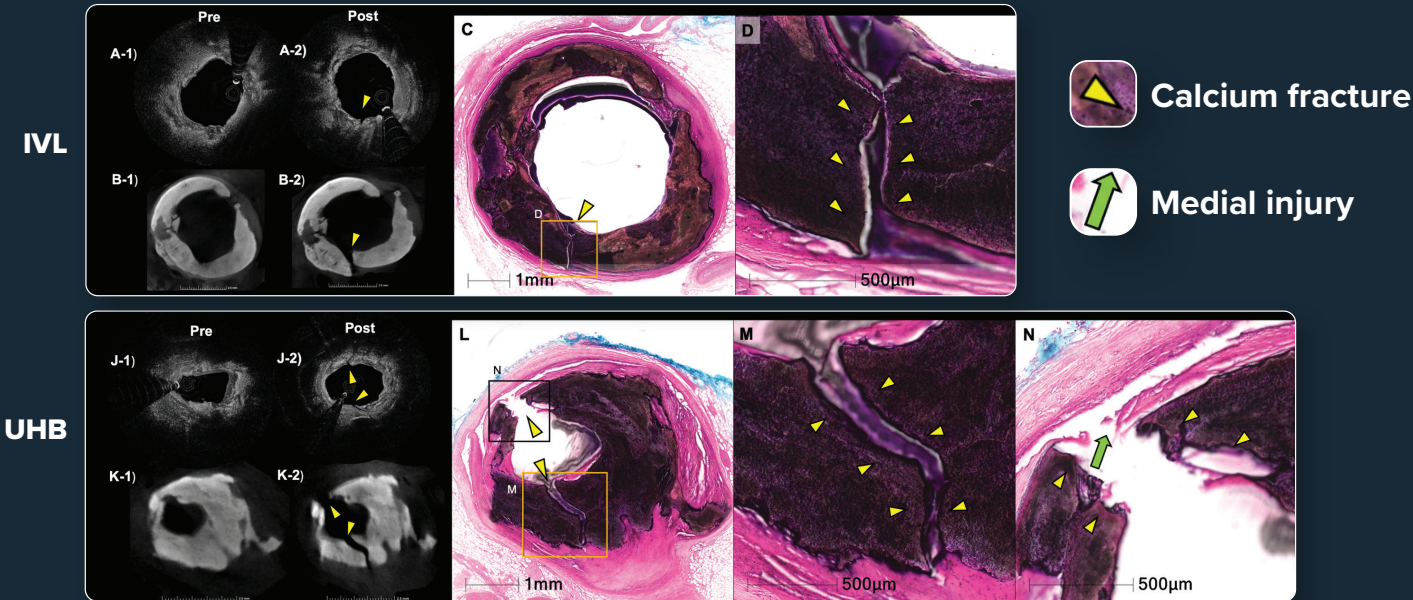
Calcium Fracture and Injury Within Calcium Arcs $<180^\circ$ by Histological Section³



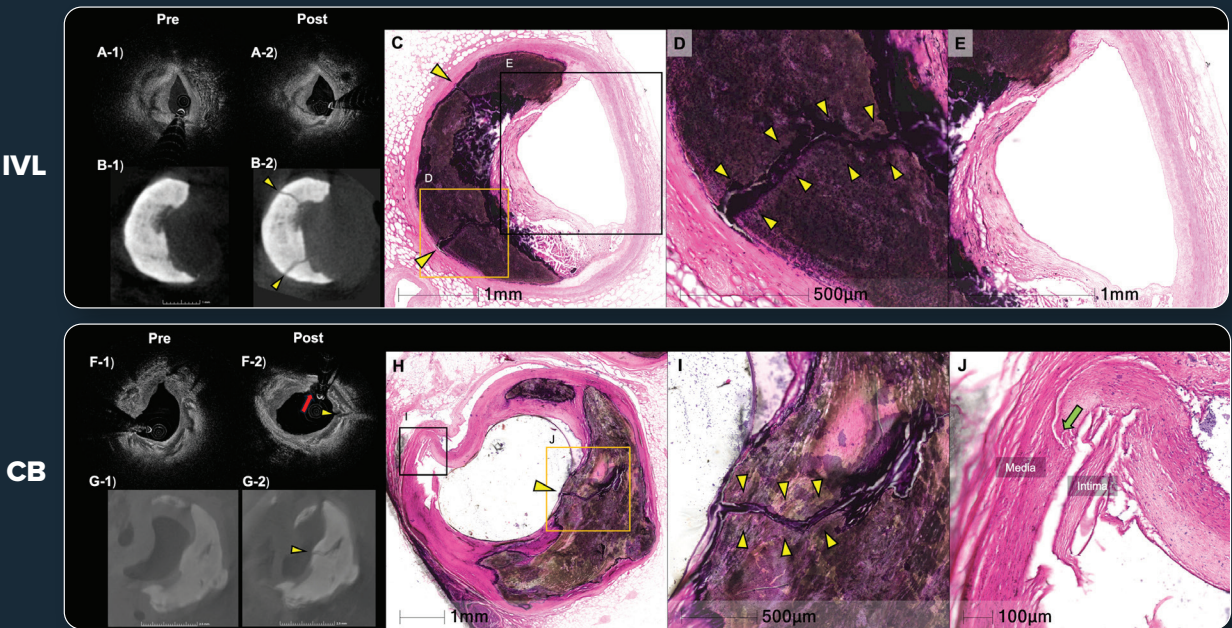
- IVL produced calcium fracture in $>50\%$ of histologic sections without medial injury
- CB produced fractures in $<50\%$ of histological sections and were mostly associated with medial injury
- No calcium fracture identified under micro-CT and histology for UHB

DeepOCT™, Micro- CT, and Histology Examples of Fracture and Medial Injury Analysis³

Device Impact on Circumferential Calcium



Device Impact on Calcium Arcs <180°



This study mirrors clinical trial findings demonstrating the safety and efficacy of Shockwave IVL across calcium arcs⁴. Additional clinical research appropriately powered for safety is warranted to reaffirm benefits of IVL in this ex-vivo study.

Sekimoto, T et al. Comparison of Vascular Injury From Intravascular Lithotripsy, Cutting, or Ultra-High-Pressure Balloons During Coronary Calcium Modification. J Am Coll Cardiol Interv. 2025 Sep, 18 (17) 2093–2104. Cadaveric study. May not be indicative of actual clinical use.

1. Mangieri A, Nerla R, Castriota F et al. Cutting balloon to optimize predilation for stent implantation: The COPS randomized trial. Catheter Cardiovasc Interv 2023;101:798-805

2. Rheude T, Rai H, Richardt G et al. Super high-pressure balloon versus scoring balloon to prepare severely calcified coronary lesions: the ISAR-CALC randomised trial EuroIntervention 2021;17:481-488.

3. Sekimoto, T et al. Comparison of Vascular Injury From Intravascular Lithotripsy, Cutting, or Ultra-High-Pressure Balloons During Coronary Calcium Modification. J Am Coll Cardiol Interv. 2025 Sep, 18 (17) 2093–2104. Cadaveric study. May not be indicative of actual clinical use.

4. Ali, Ziad A., et al. Impact of Calcium Eccentricity on the Safety and Effectiveness of Coronary Intravascular Lithotripsy: Pooled Analysis from the Disrupt CAD Studies. Cardiovasc Interv 2023

In the US: Rx Only. Prior to use, please reference Instructions For Use for information on indications, contraindications, warnings, precautions, and adverse events. www.shockwavemedical.com/IFU

Please contact your local Shockwave representative for specific country availability.

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