



Treating Calcified Left Main Bifurcation Lesion: What to do when you cant burr

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- 78 yr old male
- No comorbidities
- Smoker
- Angina on exertion class II-III since last 1 week
- Presented with rest angina since 2 hours
- CKMB- 68IU/L hsTrop I : >5000pg/ml
- ECG: ST depression in anterior leads and aVR ST elevation.
- Echo: Global Hypokinesia of LV with LVEF 35% with Grade II MR, Moderate PAH
- Out of Hospital CAG done revealed Left dominant system with Left Main bifurcation calcific Medina 1,1,1 stenosis: was advised CABG.
- While being referred he developed pulseless VT which was DC cardioverted and the patient was planned for urgent LMB- PCI

SINGH 78/M MR.ROHITAS NIDAAN HOSPITAL, MURTHAL ROAD SONIPAT(HR)
PSIN06100641 M 990001Cardiac
PTCA.IVUS.SHOCKWAVE 10-June-2020 6:41:30

RAO: 4.00 CAU: 11.00

XA

JPEGLossless:Non-hierarchical-1stOrderPrediction

Images: 1/27

Series: 1

133 mA 113.00kV

WL: 32767 WW: 65535

IVUS imaging of LCX Ostia

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RAO: 10.00 CAU: 33.00

XA

JPEGLossless:Non-hierarchical-1stOrderPrediction

Images: 1/50

Series: 1

129 mA 116.00kV

WL: 32767 WW: 65535

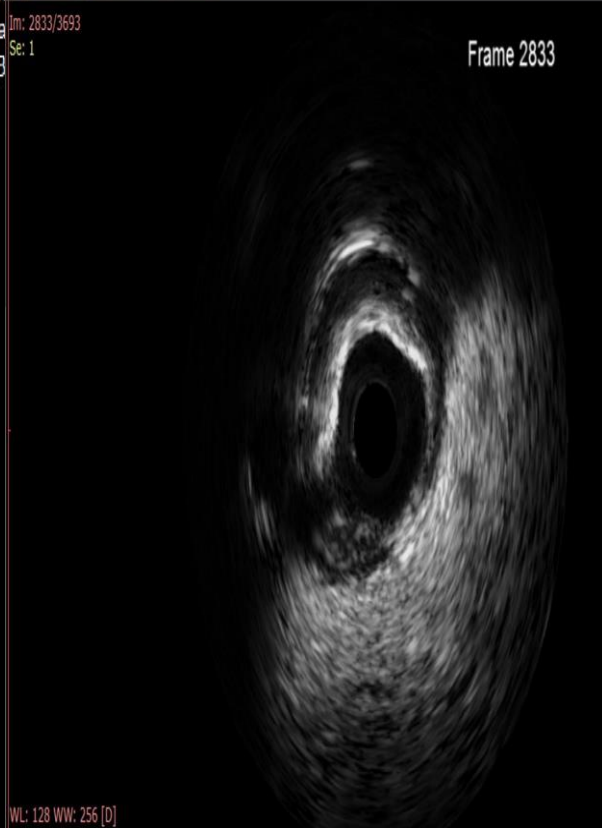
Singh Rohitas - 6/9/2020 6:54:52 PM - IVUS-5-IVUS

Im: 2833/3693

Se: 1

Frame 2833

WL: 128 WW: 256 [D]



Singh

5074820

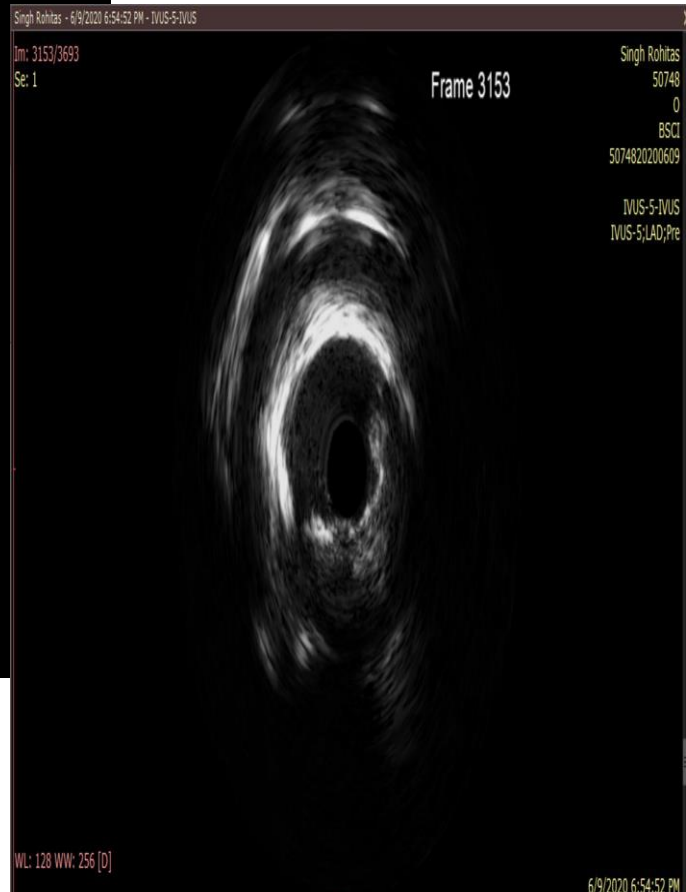
Singh Rohitas - 6/9/2020 6:54:52 PM - IVUS-5-IVUS

Im: 3153/3693

Se: 1

Frame 3153

WL: 128 WW: 256 [D]



Singh Rohitas

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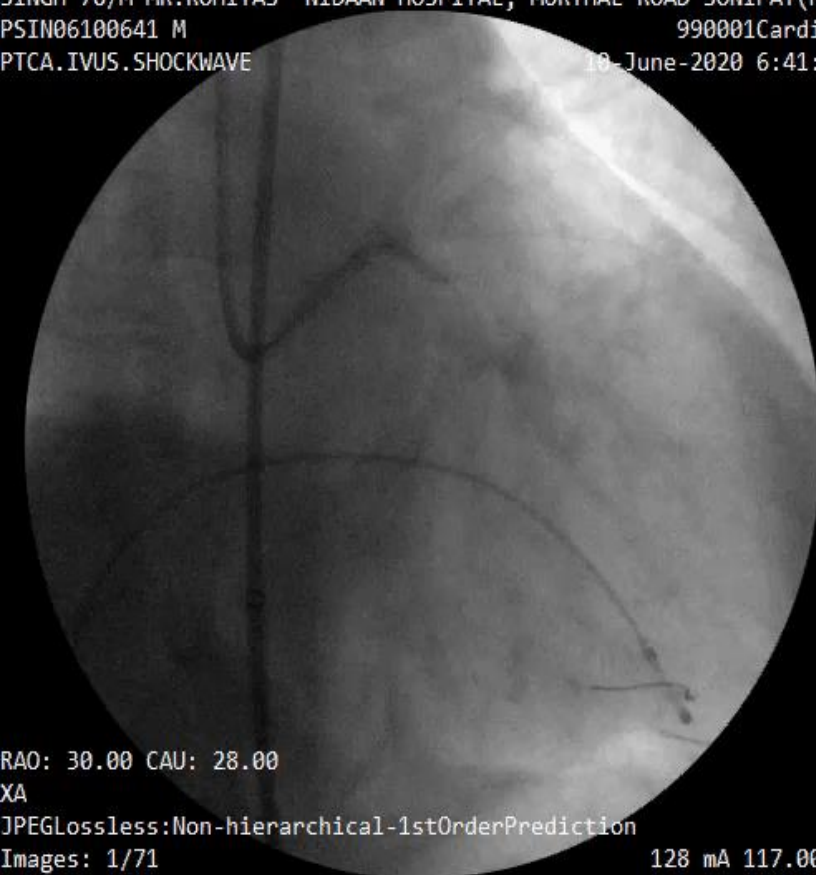
IVUS-5-IVUS

IVUS-5;LAD;Pre

6/9/2020 6:54:52 PM

1. **Cutting balloon:** Dense Calcific Arc > 200deg, high risk of failure and complications
2. **High Pressure OPN balloon:** Risk of dissection with retrograde extension
3. **Rotablation:** Acute coronary syndrome, Eccentric Calcium, Advanced age, risk of slow flow in dominant LCX
4. **Orbital Atherectomy:** Unavailable
5. **Intravascular Lithotripsy:** Low risk of complications with great periprocedural outcomes

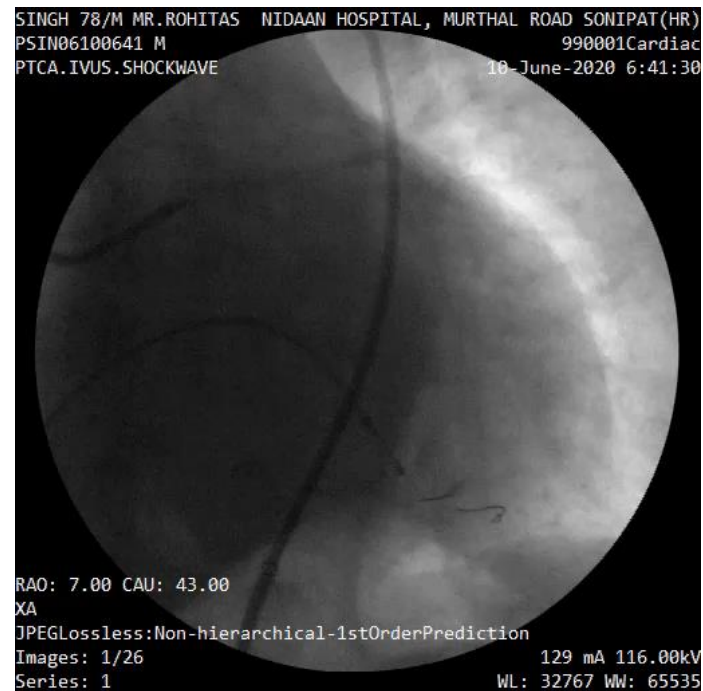
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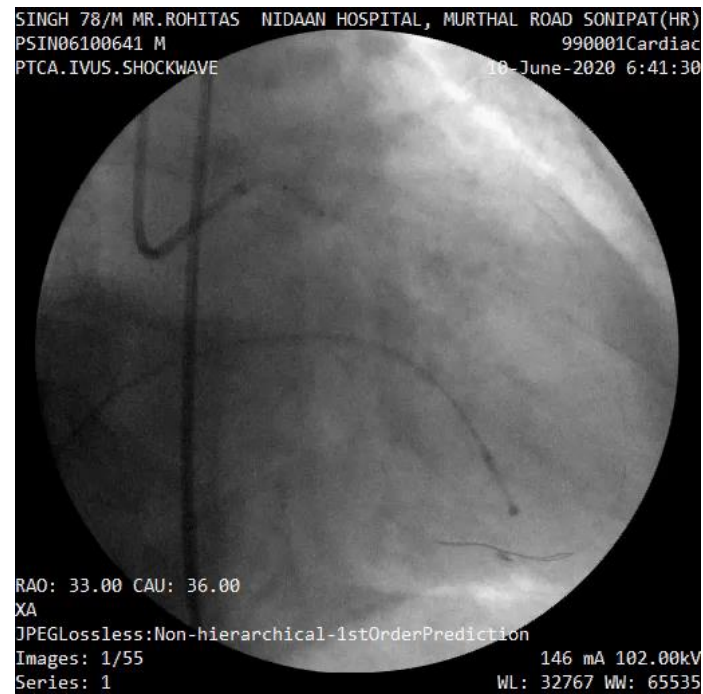


IVL at distal LM to Ostial LCX
3.5x10 mm 50 pulses



IVL at distal LM to LAD : 30 pulses





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RAO: 8.00 CAU: 36.00

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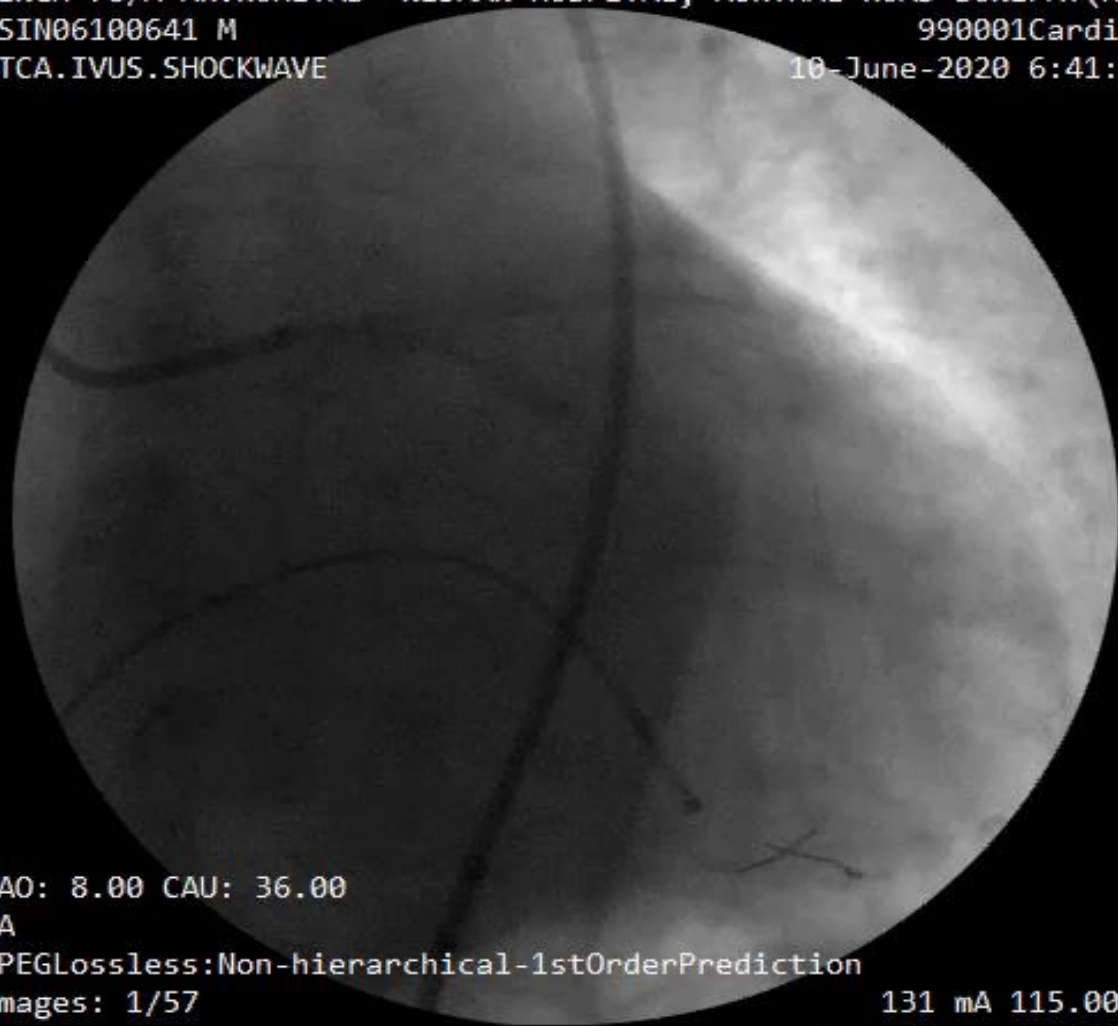
JPEGLossless:Non-hierarchical-1stOrderPrediction

Images: 1/57

Series: 1

131 mA 115.00kV

WL: 32767 WW: 65535



TAP stenting LM-LCX and LAD

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RAO: 3.00 CRA: 36.00

XA

JPEGLossless:Non-hierarchical-1stOrderPrediction

Images: 1/38

Series: 1

126 mA 119.00kV

WL: 32767 WW: 65535



RAO: 4.00 CAU: 2.00

XA

JPEGLossless:Non-hierarchical-1stOrderPrediction

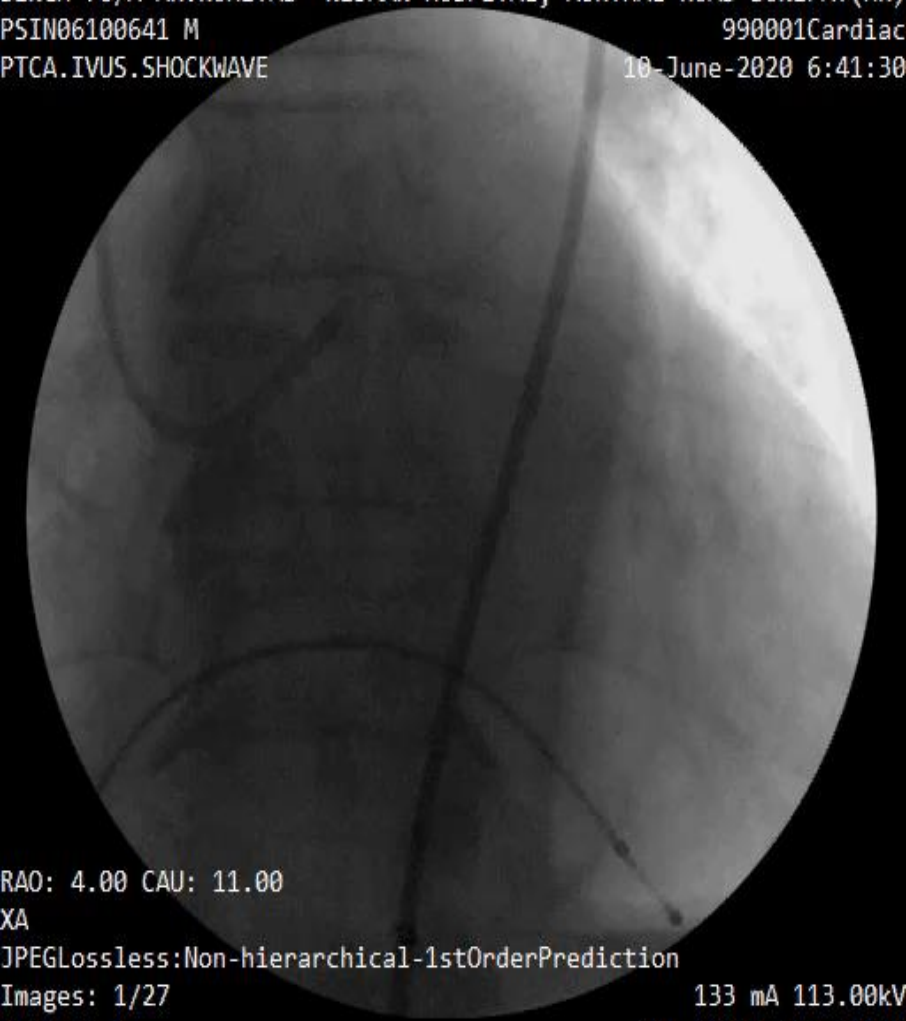
Images: 1/8

Series: 1

145 mA 97.00kV

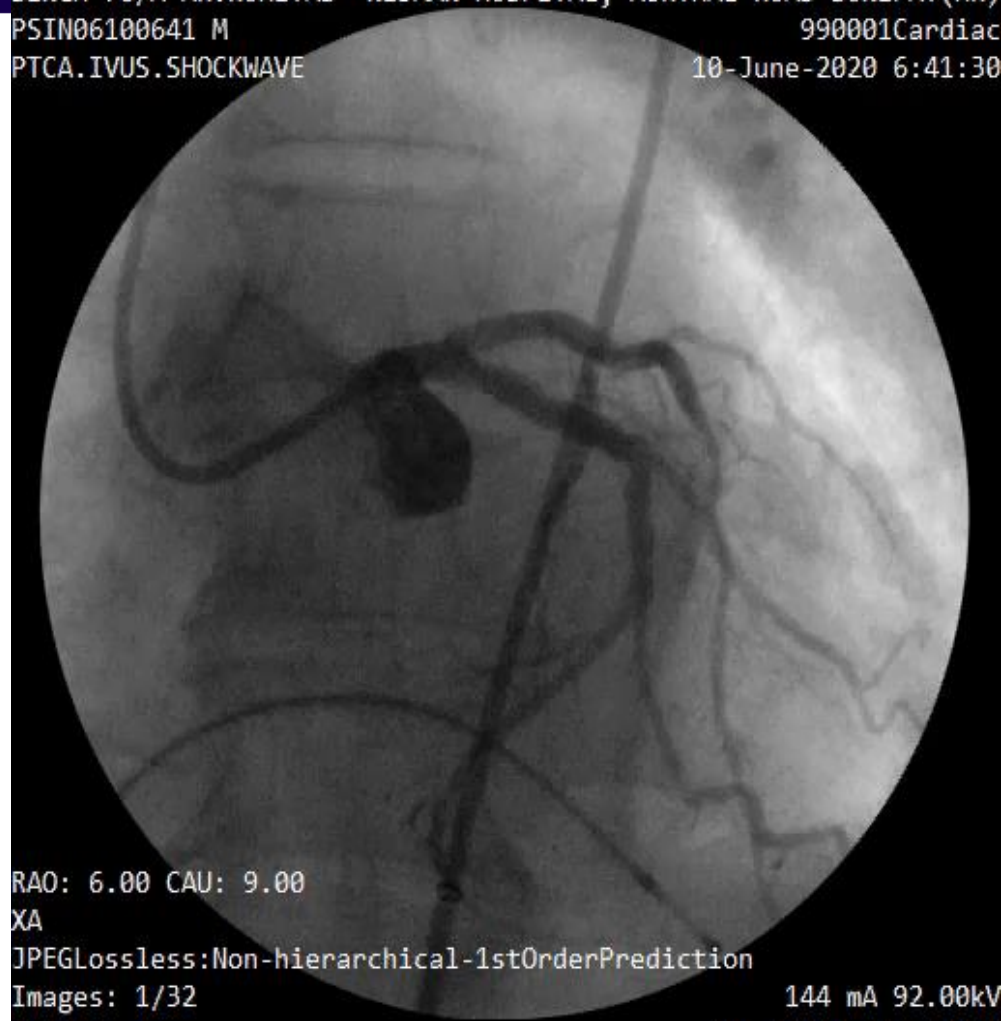
WL: 32767 WW: 65535

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RAO: 6.00 CAU: 9.00
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JPEGLossless:Non-hierarchical-1stOrderPrediction
Images: 1/32 144 mA 92.00kV
Series: 1 WL: 32767 WW: 65535

- Patient subsets with advanced age, calcific eccentric lesions and Left main disease pose a significant challenge to the cardiologist in providing a safe result for the patient.
- Intravascular shockwave lithotripsy is a safer, faster and effective alternative in lesions where rotablation has prohibitive risk particularly in elderly patients with acute coronary syndrome

THANK YOU FOR KIND
ATTENTION