

Since January 2020 Elsevier has created a COVID-19 resource centre with free information in English and Mandarin on the novel coronavirus COVID-19. The COVID-19 resource centre is hosted on Elsevier Connect, the company's public news and information website.

Elsevier hereby grants permission to make all its COVID-19-related research that is available on the COVID-19 resource centre - including this research content - immediately available in PubMed Central and other publicly funded repositories, such as the WHO COVID database with rights for unrestricted research re-use and analyses in any form or by any means with acknowledgement of the original source. These permissions are granted for free by Elsevier for as long as the COVID-19 resource centre remains active. **Conclusions.** 1. The Biplane angiography allows you to position the stent in coronary arteries simultaneously in two projections: along the distal and proximal mark of the stent.

2. Biplane does the one-time visualization of coronary arteries in two projections. But "does BIPLANE significantly decrease of contrast amount?" or "is there any difference in procedure times?" is subject to a further randomized trial.

3. BIPLANE coronary angiography and PCI are useful for simple or complicated cases. It is an important step in training specialists on simple cases first to be ready for more complicated situations.

TCTAP C-033

CHIP - Choice OR Only Option..!! For Complicated Post Covid Case With Severely Calcified LM Trifurcation Lesion



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CLINICAL INFORMATION

Patient Initials or Identifier Number. 2751019

Relevant Clinical History and Physical Exam. A 79-year-old-male was admitted with fever and cough in desaturated state. He was diagnosed with COVID-19 (RT-PCR +), and was managed conservatively as per standard protocol. He developed acute pulmonary edema after 14 days of his illness. Developed hypotension and was started on inotropes. Diagnosed with evolved AWMI (KILIPS class III on mechanical ventilator). Repeat COVID-19 test was negative.

Known- DM II, Hypertension, AKI

BP- 100/70 mmHg (on support) HR-100/Minute

CVS- S1S2S3+

RS- B/L crepitation +

Relevant Test Results Prior to Catheterization. ECG- Q wave in V2-V5 with ST Elevation

2D TTE- Severe LV dysfunction (EF-30%) with grade I diastolic dysfunction. Severely hypokinetic LAD territory.

Trop I- 8.9 ng/ml NTproBNP- 8110 pg/ml Hb - 10.8 gm/dl TC- 11200 cells/mcL Platelets- 2.5 lakhs BUN- 64 mg/dl Creatinine- 1.3 mg/dl

CT Thorax- B/L moderate pleural effusion (right>left) with minimal consolidation on right side.

Relevant Catheterization Findings. Coronary Angiogram - Densely calcified - Distal LM had 50-60% stenosis. LAD had long segment lesion extending from ostial to mid segment with maximum severity of 90-95%. Ramus intermedius has ostial 90% lesion. LCX was a dominant vessel with 80-90% ostial lesion. RCA has 70-80% ostioproximal lesion.













INTERVENTIONAL MANAGEMENT

Procedural Step. -Lt. femoral artery cannulated with 7F long sheath -IABP placed through rt. femoral artery

-TPI through RT. femoral vein

-With 7F 3.5 EBU (Terumo, Japan) guiding Lt. coronary artery hooked

-Using Finecross microcatheter (Terumo, Japan) Runthrough wire (Terumo, Japan) exchanged with Grand Slam wire (Asahi, Japan)

-Predilatation in LAD using 1.5x10 mm Ryurei balloon (Terumo, Japan) f/b 2x10 mm Apollo balloon (BrosMed, China)

-IVUS done

-I/V/O densely calcified vessel predilation with 2.5x10 mm Accuforce (Terumo, Japan) balloon followed by IVL with shockwave C2 3X12 mm balloon (Shockwave Medical, USA)

-Prepare LCX with 2x10 mm Ryurei balloon (Terumo, Japan) f/b 3x10 mm OPN balloon (SIS Medical, Switzerland)

-LAD stented with 2.75x30 mm Resolute DES (Medtronic, USA) and 3.5x38 mm Resolute DES

-Ostial flaring done with same stent balloon using modified Tzabo wire technique (Terumo, Japan)

-POT to LM done using 4.5x6 mm Accuforce balloon (Terumo, Japan)

-BMW (Abbot, USA) wire recrossed in LCX

-POBA to RI done using 2.5x15 mm Tazuna balloon (Terumo, Japan) -LCX predilated with 2.5x 12 mm Accuforce balloon (Terumo, Japan)

-LAD post dilated with 3x10 mm apollo balloon (BrosMed, China). Same balloon placed in LM to LAD area and 3x26 mm resolute DES was kept in the ostial LCX with one strut protruding into LM (TAP technique)

-IVUS run showed satisfactory results

Cardia

Left Coro 15 fps Medium

S125

Conclusions. -COVID-19 infection makes a stable plaque into unstable plaque.

Soft*Lin* Internation

-Severely calcified lesions associated with significant thrombus can be safely handled by lithorripsy. -Preparation of vessel bed is essential for better results.

oro 15 fps Med





