Successful rotational atherectomy for the calcified lesion of LCx with coronary perforation in the three vessel disease

Cardiology in Red Cross Hospital KOBE
Takeuchi Clinic of Internal Medicine

Nobuaki Igarashi 1) Tomoyuki Wakaei 1) Mariko Takeuchi 1) Natsuko Tahara 1)
Hiromi Toki 1) Jyunya Satou 1) Yayoi Taniguchi 1) Tomoya Masano 1) Takeomi Murata 1)
Motoshi Takeuchi 2) Tomofumi Doi 1)

Disclosure of Conflict of Interest
I have no COI with regard to our presentation.
Case
A-80-year-old woman

Chief complaint
Chest pain

Past illness
Hypertension  Dyslipidemia  Diabetes Mellitus

Present illness
She had chest pain at rest on October 2017. Emergency CAG detected three vessel disease. We recommended CABG but she rejected it. We performed PCI for RCA on October 2017. After that she’d like to keep the observation. However, she had chest pain again. We performed PCI for LCx on January 2018.
X-ray CTR 52%

ECG CRBBB

UCG inferior hypokinesis EF 51%

Cr 0.84 mg/dl eGFR 49.2 ml/min/1.73 m²
Base line CAG October 2017

Spiderview

LAO
Base line CAG October 2017

SYNTAX score 41
Euro score 4.5

LAO CRA
PCI for RCA October 2017

Wiring with Sion supported by Mogulthinner
PCI for RCA October 2017

2.75/28mm EES

3.0mm Hyruplus
PCI for RCA October 2017

Final Result  Peak CPK 339 (CKMB 26)
Cardioscintigram

Fill-in at the posterolateral area
PCI for LCx January 2018

Approach; Rt femoral GC; 8Fr EBU 3.5 GW; Sion → Rota wire Floopy Balloon; Tazuna 1.25mm

IVUS cathe didn’t pass
PCI for LCx January 2018

Rotablator® 1.25mm burr 200,000rpm  Rota wire floppy
PCI for LCx January 2018

Post Ablation
PCI for LCx January 2018

Rotablator® with 7Fr Guidezilla
PCI for LCx January 2018

Rotablator® 1.25mm burr 200,000rpm  Rotawire extrasupport
PCI for LCx January 2018

Blood Supply with Finecross GT

Figure
PCI for LCx January 2018

IVUS after Hemostasis

2.5/23mm EES
PCI for LCx January 2018

2.75/18mm ZES
Haziness at the proximal part of LAD

IVUS in LAD
PCI for LCx January 2018

3.0/15mm ZES

Final result
PCI for LCx January 2018

Final result
Chest CT after PCI

Pericardial effusion without cardiac tamponade
PCI for LCx January 2018

Pre PCI

Figure
Discussion Points

To avoid the coronary perforation in the procedure of Rotablator® ...

If we try to pass Rota burr only one time...

Which is better Floppy wire or Extrasupport wire?

Which is better only one pass of Rota burr or halfway strategy?
Successful rotational atherectomy for the calcified lesion of LCx with coronary perforation in the three vessel disease

By using self-made perfusion balloon, we could hemostasis
Thank you for your attention.