

A Case of Successful DEB Angioplasty guided by FFR & IVUS

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Presenter Disclosure Information

Presenter : Jong Min Kim, M.D.

Title : A Case of Successful DEB Angioplasty guided by FFR & IVUS

No relationships to disclose No industry sponsorship



Case Review

- Age: 64, Gender: Male
- C.C: Effort related chest pain for 1 week
- Risk factors

 HTN,
 DM,
 Dyslipidemia,
 Current smoker(30PY)



Case Review

- ECG: Normal
- Lab: T-chol 188, HDL 30, TG 201, LDL 122 mg/dl HbA1C 7.1%
- Cardiac enzyme: Normal
- EchoCG: Normal
- **TMT:** Inadequate



Coronary CT





Coronary Angiography





Coronary Angiography





FFR(Baseline)



FFR 0.81 -> 0.51



POBA



FORTIS 3.5mm * 13mm up to 3.5mm(12atm)



After POBA





IVUS (After POBA)



MLA: 3.1mm² Plaque burden: 80%



FFR(After POBA)





DEB



SeQuent 3.5mm * 20mm up to 3.56mm(8atm) for 40sec



After DEB angioplasty





Discharge Medication

- Asprin 100mg qd, Clopidogrel 75mg qd for 1 month Amlodipine 5mg qd Atorvastatin 20mg qd
 - → No CV event and angina symptom



F/U CAG (6months later)





F/U IVUS (6months later)



MLA: 6.0mm² Plaque burden: 67%



OCT (6months later)





OCT (6months later)





OCT (6months later)





Summary

- 64/M, UA with focal tight stenotic lesion of mLAD
- Successful DEB angioplasty guided by FFR & IVUS
- Short-term dual antiplatelet therapy
- No any CV event and restenosis for 6 months
- The lesion was healed that confirmed by OCT



Messages from this case

- Drug-eluting balloons(DEBs)
- : Latest technologies proposed to overcome limitation of DES, such as stent thrombosis, long-term dual anti-platelet therapy
- : Substitude in the treatment of in-stent restenosis
- May be useful to prevent restenosis of de novo lesion subsets



Thank you for your attention !



