Case Report: Unstable angina with flow-fatty acid metabolism mismatch and reverse flow-glucose metabolism mismatch patterns

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A 79-year-old man with unstable angina underwent an emergency coronary angiography, and percutaneous balloon angioplasty was performed for LCX. Left ventriculography showed hypokinesis in the posterior wall, inferior and apical wall immediately after the PCI therapy. The defects on ¹²³I-BMIPP SPECT seen in the inferior, posterior and lateral wall were more extensive than those observed on ^{99m}Tc-MIBI SPECT, and a flow-fatty acid metabolism mismatch pattern was observed. The ¹⁸F-FDG PET showed reduced uptake in the lateral segment, although ¹³N-NH₃ PET showed normal perfusion, and a reverse flow-glucose metabolism mismatch pattern was observed. Left ventriculography showed significant improve to normal contraction on the 3-month follow up, and there was not significantly reduced uptake in ^{99m}Tc-MIBI SPECT, ¹²³I-BMIPP SPECT, ¹³N-NH₃ PET or ¹⁸F-FDG PET.

Key words: ¹⁸F-FDG, ¹³N-NH₃, ¹²³I-BMIPP, ^{99m}Tc-MIBI, repetitive myocardial stunning