

## Noncompaction of the ventricular myocardium mimicking ischemic cardiomyopathy

Naoya MATSUMOTO,\* Yuichi SATO,\* Taeko KUNIMASA,\* Shinro MATSUO,\*\* Masahiko KATO,\* Shunichi YODA,\*  
Yasuyuki SUZUKI,\* Shigemasa TANI,\* Motoichiro TAKAHASHI\*\*\* and Satoshi SAITO\*

\**Department of Cardiology, Nihon University School of Medicine*

\*\**Department of Cardiovascular and Respiratory Medicine, Shiga University of Medical Science*

\*\*\**Department of Radiology, Nihon University School of Medicine*

A 68-year-old woman was admitted to our hospital because of left ventricular failure. Myocardial perfusion single-photon emission computed tomography demonstrated a non-reversible perfusion defect in the anterolateral left ventricular segments and reduced ejection fraction, findings consisted with ischemic cardiomyopathy accompanied by lateral wall infarction. Coronary angiogram was normal, but the left ventriculogram showed prominent trabeculations in the apical and anterolateral segments. The left ventricular ejection fraction was 28%. Cine magnetic resonance imaging demonstrated prominent trabeculations and deep intertrabecular recesses, findings consistent with noncompaction of the ventricular myocardium. Myocardial hypoperfusion or necrosis in the noncompacted myocardium may be the cause of myocardial damage and possibly the basis of left ventricular failure.

**Key words:** isolated noncompaction of the ventricular myocardium, single-photon emission computed tomography