

## Scan findings of various myocardial SPECT agents in a case of amyloid polyneuropathy with suspected myocardial involvement

Ali Syed ARBAB, Kiyoshi KOIZUMI, Keiji TOYAMA, Takao ARAI, Tatsuya YOSHITOMI  
and Tsutomu ARAKI

*Department of Radiology, Yamanashi Medical University*

A 31-year-old male having familial amyloid polyneuropathy underwent a Tc-99m(V)-DMSA study to evaluate the myocardial involvement. The patient also underwent Tl-201, I-123-BMIPP and I-123-MIBG myocardial SPECT studies to evaluate blood perfusion, fatty acid metabolism and sympathetic function of the heart, respectively. Tc-99m(V)-DMSA SPECT showed uptake to the myocardium indicating myocardial involvement of amyloidosis. Both Tl-201 and I-123-BMIPP studies showed normal uptake indicating normal blood perfusion and fatty acid metabolism but I-123-MIBG SPECT showed no uptake to the heart, indicating severe impairment of sympathetic function.

**Key words:** amyloidosis, Tc-99m(V)-DMSA, Tl-201, I-123-BMIPP, I-123-MIBG