Cardiac involvement of progressive muscular dystrophy (Becker type, Limbgirdle type and Fukuyama type) evaluated by radionuclide method

Shigeki Nagamachi,* Kenjiro Itoke,** Seishi Jinnochio,* Hiroaki Honm,* Seiji Ono,* Takashi Ominishi,* Shigemi Futami,* Katsushi Watanabe* and Tohru Hayashi**

*Department of Radiology, **Department of Internal Medicine, ***Department of Pathology, Miyazaki Higashi National Senatorum, Miyazaki Medical College

TI-201 SPECT and Tc-99m-Human serumalbumin (HSA) multigated radionuclide ventriculography were performed on 11 patients with progressive muscular dystrophy (Becker type 2, Fukuyama type 2, Limbgirdle type 7) to evaluate myocardial involvement. Hypoperfusion was detected in 8 patients on TI-201 SPECT. Decreases in both systolic function (left ventricular ejection fraction; LVEF) and diastolic function (peak filling rate; PFR) were also seen in these patients. A high incidence of myocardial involvement of these kinds of progressive muscular dystrophy was suggested.

Keywords: TI-201 myocardial SPECT, progressive muscular dystrophy, Tc-99m-HSA multigated ventriculography, LVEF, PFR