Indium-111 antimonyosin monoclonal antibody Fab imaging in patients with cardiomyopathy

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Six patients with cardiomyopathy were imaged following intravenous injection of an indium-111 labeled monoclonal antibody directed against the heavy chain of cardiac myosin. Two patients had hypertrophic non-obstructive cardiomyopathy (HNCM), two patients had dilated cardiomyopathy (DCM), and two patients had specific heart muscle disease. One of 2 patients with HNCM and one of 2 patients with DCM had a positive antimonyosin scan. The 2 patients with specific heart muscle disease manifested persistent blood pool activity of the antibody, thereby precluding interpretation of the images. The present report demonstrates that antimonyosin antibody imaging may provide evidence of myocardial injury, or necrosis in some patients with cardiomyopathy.

Key words: In-111 antimonyosin antibody, cardiomyopathy