EVALUATION OF CHANGES OF REGIONAL RADIO- 
ACTIVITY IN MYOCARDIUM BY STRESS Ti-201 
SCINTIGRAPHY IN PATIENTS WITH HYPERTROPHIC 
CARDIOMYOPATHY. S. Suzuki, K. Owada, T. Saito, 
M. Sato, T. Yamada, E. Katou, F. Fujino, 
M. Komatsu, K. Ono, T. Uchida and S. Kariyone. 
First Department of Internal Medicine, 
Fukushima Medical College.

Defect of image and redistribution in its area are reported in patients with 
Hypertrophic Cardiomyopathy (HCM) on 
exercise stress Ti-201 scintigraphy. 
Serial images according to time were studied in 5 cases of HCM, 6 normal control (C) and 11 
cases of coronary artery diseases (CAD). 
Uptake Ratio (UR) is defined as the radio-
tility 10 matrix (64X64) in anteroseptal,
inferior and postero lateral region against 
total injected radioactivity at first pass 
on chest after Ti-201 injection. The serial 
images were obtained in LAO view at 5, 15, 
30, 60 and 120 minutes after Ti-201 
injection at one minute before stop 
exercise. Serial UR of thickened region (HCM) 
were between UR (C) and UR (CAD). 
Decreasing gradient of UR (HCM) was smaller than 
UR (C) and was similar to UR (CAD). During 30 min 
after exercise, differences of UR (HCM) were 
larger than at 60 and 120 min. 
These results may suggest that kinetics of 
Ti-201 after exercise in HCM is different 
from normal myocardium and that of CAD.