
For evaluating left and right ventricular function, LVEF and RVEF were obtained from first pass method of Tc-99m–PYP scan in 40 cases of suspected acute myocardial infarction. After grading size from +0 to +4 and uptake rate from +0 to +4 (Parkey’s classification), PYP score was obtained by the ratio of size x uptake rate. LVEF showed weak correlation with PYP score (n=23, R= -0.404). In 12 cases, to evaluate resumption of ventricular function, the values of LVEF and RVEF were obtained by first pass method which was done at more than 10th (up to 60th) hospital day. The values of LVEF were improved by more than 10% in 7 cases, by 1 to 9% in 3 cases and by less than 0% in 2 cases, whereas those of RVEF were improved by more than 10% in 2 cases, by 1 to 9% in 6 cases and by less than 0% in 4 cases. Comparing myocardial imaging by TICI-201 with that by Tc-99m–PYP, infarct area by Tc-99m–PYP scan was larger than that of TICI-201 scan. Furthermore, 3 of 16 cases of uptake (Parkey +3–+4) showed normal perfusion by TICI-201 scan. Evaluation of ventricular function at acute phase was very important to diagnose severity of myocardial infarction.

13 ANALYSIS OF LEFT VENTRICULAR VOLUME WITH COUNT METHOD. K. Hayashida, T. Nishimura, T. Uehara, and T. Kozuka. Dept. of Radiology, National Cardiovascular Center, Suita.

Analysis of left ventricular volume was attempted by left ventricular count method to apply for the routine work. Left ventricular count standardized by equilibrium blood sampling (Blood Sampling Method) was well correlated with left ventricular volume from dye dilution method (R=0.962). However, it is difficult to obtain blood samplings in daily examination. Right and left average count (RVC and LVC) was measured by equilibrium image for 1 min as same as MUGA position. RVC (R=0.946) had better correlation than LVC (R=0.854). After correction of ventricular alignment by ratio of RVC/LVC (Normal value=0.982) left ventricular count was standardized by RVC (RVC method) without blood samplings. With comparison of left ventricular volume from cineangiography, analysis of left ventricular volume from RVC method (R=0.87) had almost same accuracy with that of left ventricular volume from blood sampling method. As left ventricular volume determination is easy to get with RVC method, clinical usage of this method will be utilized.