

[課程－ 2 ]

## 審査の結果の要旨

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### Summary of Dissertation Results

Among the 128 patients 98 were men and 30 women, age  $67 \pm 12$  years (mean  $\pm$  standard deviation)]. Age range: 30–87 years and their mean HR during the examination was 67 beats/min (range: 49–93 beats/min).

The result shows that when the heart rate is  $\leq 75$  beats/min the best reconstruction phase is found at PR (66% to 82% of the R-R interval) which is the diastolic phase of the cardiac cycle. And the mean distribution is  $74 \pm 4$  (SD). But if the heart rate is  $> 75$  beats/min then the reconstruction phase is found irregularly at QT of the ECG wave. And the mean distribution is  $61 \pm 18$  (SD). In detail, for the first group of patients the optimum quality image was found before P wave in 63% cases, over P wave at 19% cases, after the P wave at 9% cases and end of the T wave is at 9% cases. Prospective scan affirms diagnostic phase if the heart rate is lower. Therefore, the optimal necessary image for making the diagnosis was found at PR for the patients having heart rate  $\leq 75$  beats/min and on QT for the patients having HR  $> 75$  beats/min.

There is a positive correlation of the reconstruction phase with the specific cardiac phase in patients having heart rate  $\leq 75$  beats per minute in an advanced setting irrespective of R-R mean. And if the HR is more than 75 beats/min, the reconstruction phase shifts to QT or at the late systolic phase of

the cardiac cycle.

よって本論文は博士（医学）の学位請求論文として合格と認められる。