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Journal of the Medical Association of Thailand, Vol 96, No 2

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Prognostic Value of Normal Dobutamine Stress Echocardiography in Renal Transplant Candidates

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Abstract

Background: Renal transplant candidates are at high-risk for cardiovascular events. No definite screening tool has been recommended for the pre-operative evaluation.

Objective: The authors studied the prognostic value of normal dobutamine stress echocardiography in this population.

Material and Method: Dobutamine stress echocardiography was performed for the pre operative assessment in 107 renal transplant candidates (age 53.2 + 6.2 years, 66.4% male). The mean follow-up time was 2.8 + 1.7 years. The primary endpoint was total mortality.

Results: During follow-up, 16 (15.0%) died and 26 (24.3%) patients underwent kidney transplantation. The overall survival probabilities at 1, 3 and 5 years were 87, 83 and 79%, respectively. Among those who underwent renal transplantation, the survival probabilities at 1, 3 and 5 years were 100, 100 and 89%, respectively.

Conclusion: In renal transplant candidates, normal dobutamine stress echocardiography portends a good long-term prognosis.

Keywords: Dobutamine stress echocardiography, Prognosis, Renal transplant

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